



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 125497

TO: Ruixiang Li
Location: REM-4d75&4C70
Art Unit : 1646 —
Tuesday, June 29, 2004

Case Serial Number: 09/742684

From: Toby Port
Location: Biotech-Chem Library
REM-1A59
Phone: (571) 272-2523
toby.port@uspto.gov

Search Notes

GenCore version 5.1.6
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CM protein - protein search, using sw model

Run on: June 28, 2004, 09:48:46 ; Search time 23 Seconds
(without alignments)
1151.484 Million cell updates/sec

Title: US-09-742-684A-16
Perfect score: 2770
Sequence: 1 MGAACKLAPAVFLISCSGA.....IVTVVTMTNVDFPPKESL 513

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/protdata/2/iaa/5A COMB.pep.*
2: /cgn2_6/protdata/2/iaa/5B COMB.pep.*
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6: /cgn2_6/protdata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2763	99.7	513	2	US-08-357-533A-10
2	2763	99.7	513	2	US-08-459-009-10
3	2763	99.7	513	2	US-08-300-584-2
4	2763	99.7	513	3	US-08-459-951-10
5	2763	99.7	513	3	US-08-738-168B-13
6	2763	99.7	513	3	US-08-476-123-2
7	2749	99.2	521	3	US-08-738-168B-5
8	2482.5	89.6	514	3	US-08-738-168B-15
9	1971.5	71.2	510	2	US-08-300-584-4
10	1971.5	71.2	510	3	US-08-476-123-4
11	1931	69.7	536	2	US-08-357-533A-12
12	1931	69.7	536	2	US-08-459-009-12
13	1931	69.7	536	3	US-08-459-951-12
14	1915.5	69.2	513	2	US-08-357-533A-11
15	1915.5	69.2	513	3	US-08-459-009-11
16	1915.5	69.2	513	3	US-08-459-951-11
17	1702	61.4	323	3	US-08-158-735A-12
18	1147.5	41.4	516	2	US-08-357-533A-2
19	1147.5	41.4	516	2	US-08-459-009-2
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21	775.5	28.0	567	1	US-08-361-873A-2
22	775.5	28.0	567	2	US-08-483-926A-1
23	775.5	28.0	567	2	US-08-854-768-1
24	775.5	28.0	567	2	US-08-445-520B-9
25	775.5	28.0	567	2	US-08-737-045-1
26	775.5	28.0	567	3	US-08-451-946B-8
27	775.5	28.0	567	3	US-08-446-938B-8

28 775.5 28.0 567 3 US-08-311-703A-8 Sequence 8, Appli
29 775.5 28.0 567 3 US-08-446-939B-8 Sequence 8, Appli
30 775.5 28.0 567 3 US-09-183-543-8 Sequence 8, Appli
31 775.5 28.0 567 3 US-08-446-936A-8 Sequence 8, Appli
32 775.5 28.0 567 4 US-09-239-864A-11 Sequence 11, Appli
33 775.5 28.0 567 4 US-09-878-905-11 Sequence 11, Appli
34 775.5 28.0 567 5 PCT-US92-09326-4 Sequence 4, Appli
35 775.5 28.0 582 4 US-08-334-179A-4 Sequence 4, Appli
36 775.5 28.0 1038 4 US-08-334-179A-2 Sequence 2, Appli
37 770.5 28.0 1038 4 US-09-908-500A-2 Sequence 2, Appli
38 770.5 27.8 1038 4 US-08-334-179A-8 Sequence 8, Appli
39 731.5 26.4 565 2 US-08-357-533A-9 Sequence 9, Appli
40 731.5 26.4 565 2 US-08-459-009-9 Sequence 9, Appli
41 731.5 26.4 565 3 US-08-459-951-9 Sequence 9, Appli
42 717.5 25.9 325 3 US-08-158-735A-13 Sequence 13, Appli
43 674 24.3 532 2 US-08-481-337A-6 Sequence 6, Appli
44 674 24.3 532 3 US-09-382-256-6 Sequence 6, Appli
45 674 24.3 532 3 US-09-395-115-6 Sequence 6, Appli

ALIGNMENTS

RESULT 1
US-08-357-533A-10
; Sequence 10, Application US/08357533A
; Patent No. 5831050
; GENERAL INFORMATION:
; APPLICANT: JIN, DONALD F
; APPLICANT: OPPERMANN, HERMANN
; APPLICANT: KUBERASAMPATH, THANGAVEL
; APPLICANT: SMART, JOHN E
; TITLE OF INVENTION: NOVEL MORPHOGEN CELL SURFACE RECEPTOR
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PATENT ADMINISTRATOR, CREATIVE BIOMOLECULES,
; ADDRESS: INC
; STREET: 45 SOUTH STREET
; CITY: HOPKINTON
; STATE: MA
; COUNTRY: USA
; ZIP: 01748
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/08/357,533A
; FILING DATE: 16-DEC-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: KELLY, ROBIN D
; REGISTRATION NUMBER: 34,637
; REFERENCE/DOCKET NUMBER: CRP-073FW
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (508)-435-9001
; TELEFAX: (508)-435-0392
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 513 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..513
; OTHER INFORMATION: /note= "MOUSE ACTIVIN RECEPTOR"
US-08-357-533A-10

Query Match 99.7%; Score 2763; DB 2; Length 513;
Best Local Similarity 99.4%; Pred. No. 1.1e-263;

Matches 510; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGAALKAFAPFLVLCSSGAILGRSETQECFLFFNANWEKDRNTQGTGVPCTGDKDKRHC 60
DB 1 MGAALKAFAPFLVLCSSGAILGRSETQECFLFFNANWEKDRNTQGTGVPCTGDKDKRHC 60
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DB 61 PATWKNISGSIEIVKQGCWLDINDCYDRTDCVEKXKDSPEVYFCCCEGNMCKEFSYFPEM 120
QY 121 EVTQTSNPVTPKPPYNNILYSLVPLMLIAGIVICAFWYRHHKMAYPVPLVPTQDPGP 180
DB 121 EVTQTSNPVTPKPPYNNILYSLVPLMLIAGIVICAFWYRHHKMAYPVPLVPTQDPGP 180
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DB 181 PPSPLGLKPLQLLEVKAARGFCVWKAQALLNEVAVKIPPIQDKQSWQNEVEVYSLPG 240
QY 241 MKHENILQFIGAERKGTSDVDLWLITAFHEKGSLSDFLKNVSNWNLCHIAETMARGL 300
DB 241 MKHENILQFIGAERKGTSDVDLWLITAFHEKGSLSDFLKNVSNWNLCHIAETMARGL 300
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DB 301 AYLHEDIPLGKDGHPKPAISHRDIKSNVLLKNLTACIADFLALKEAGKSAGDTHGOV 360
QY 361 GTRRYMAPEVLEGAINFORDAFLRIDMYANGVLWELASRCTAAGDPVDEYMLPPEEBIG 420
DB 361 GTRRYMAPEVLEGAINFORDAFLRIDMYANGVLWELASRCTAAGDPVDEYMLPPEEBIG 420
QY 421 QHPSLEDQMEVHVHKKRPVLRDYWKQKHAGMAMLCETIEECWHDHDAEARLSAGCVGERIT 480
DB 421 QHPSLEDQMEVHVHKKRPVLRDYWKQKHAGMAMLCETIEECWHDHDAEARLSAGCVGERIT 480
QY 481 QMORLTNIITTEDIVTVMTVNTVDPPPKESL 513
DB 481 QMORLTNIITTEDIVTVMTVNTVDPPPKESL 513

RESULT 2

US-08-459-009-10
; Sequence 10, Application US/08459009
; Patent No. 5861479

GENERAL INFORMATION:

; APPLICANT: JIN, DONALD F
; APPLICANT: OPPERMAN, HERMAN
; APPLICANT: KUBERASAMPATH, THANGAVEL
; APPLICANT: SMART, JOHN E
; TITLE OF INVENTION: NOVEL MORPHOGEN CELL SURFACE RECEPTOR
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSES: PATENT ADMINISTRATOR, CREATIVE BIOMOLECULES,
; ADDRESSES: INC
; STREET: 45 SOUTH STREET
; CITY: HOPKINTON
; STATE: MA
; COUNTRY: USA
; ZIP: 01748

COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/459,009
; FILING DATE:
; CLASSIFICATION: 435

PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/357,533
; FILING DATE: 16-DEC-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: KELLY, ROBIN D
; REGISTRATION NUMBER: 34,637

REFERENCE/DOCKET NUMBER: CRP-073FW

TELECOMMUNICATION INFORMATION:

; TELEPHONE: (508)-435-9001

; TELEFAX: (508)-435-0992

; INFORMATION FOR SEQ ID NO: 10:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 513 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; FEATURE:

; NAME/KEY: Protein

; LOCATION: 1..513

; OTHER INFORMATION: /note= "MOUSE ACTIVIN RECEPTOR"

US-08-459-009-10

Query Match 99.7%; Score 2763; DB 2; Length 513;

Best Local Similarity 99.4%; Pred. No. 1.e-263;

Matches 510; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGAALKAFAPFLVLCSSGAILGRSETQECFLFFNANWEKDRNTQGTGVPCTGDKDKRHC 60
DB 1 MGAALKAFAPFLVLCSSGAILGRSETQECFLFFNANWEKDRNTQGTGVPCTGDKDKRHC 60
QY 61 PATWKNISGSIEIVKQGCWLDINDCYDRTDCVEKXKDSPEVYFCCCEGNMCKEFSYFPEM 120
DB 61 PATWKNISGSIEIVKQGCWLDINDCYDRTDCIEKXKDSPEVYFCCCEGNMCKEFSYFPEM 120
QY 121 EVTQTSNPVTPKPPYNNILYSLVPLMLIAGIVICAFWYRHHKMAYPVPLVPTQDPGP 180
DB 121 EVTQTSNPVTPKPPYNNILYSLVPLMLIAGIVICAFWYRHHKMAYPVPLVPTQDPGP 180
QY 181 PPSPLGLKPLQLLEVKAARGFCVWKAQALLNEVAVKIPPIQDKQSWQNEVEVYSLPG 240
DB 181 PPSPLGLKPLQLLEVKAARGFCVWKAQALLNEVAVKIPPIQDKQSWQNEVEVYSLPG 240
QY 241 MKHENILQFIGAERKGTSDVDLWLITAFHEKGSLSDFLKNVSNWNLCHIAETMARGL 300
DB 241 MKHENILQFIGAERKGTSDVDLWLITAFHEKGSLSDFLKNVSNWNLCHIAETMARGL 300
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DB 301 AYLHEDIPLGKDGHPKPAISHRDIKSNVLLKNLTACIADFLALKEAGKSAGDTHGOV 360
QY 361 GTRRYMAPEVLEGAINFORDAFLRIDMYANGVLWELASRCTAAGDPVDEYMLPPEEBIG 420
DB 361 GTRRYMAPEVLEGAINFORDAFLRIDMYANGVLWELASRCTAAGDPVDEYMLPPEEBIG 420
QY 421 QHPSLEDQMEVHVHKKRPVLRDYWKQKHAGMAMLCETIEECWHDHDAEARLSAGCVGERIT 480
DB 421 QHPSLEDQMEVHVHKKRPVLRDYWKQKHAGMAMLCETIEECWHDHDAEARLSAGCVGERIT 480
QY 481 QMORLTNIITTEDIVTVMTVNTVDPPPKESL 513
DB 481 QMORLTNIITTEDIVTVMTVNTVDPPPKESL 513

RESULT 3

US-08-300-584-2

; Sequence 2, Application US/08300584

; Patent No. 5885794

GENERAL INFORMATION:

; APPLICANT: Mathews, Lawrence S.

; APPLICANT: Vale, Wylie W.

; TITLE OF INVENTION: CLONING AND RECOMBINANT PRODUCTION OF

; TITLE OF INVENTION: RECEPTOR(S) OF THE ACTIVIN/TGF-BETA SUPERFAMILY

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark

; STREET: 444 South Flower Street, Suite 2000

; CITY: Los Angeles

; STATE: CA

COUNTRY: USA
Zip: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/300,584
FILING DATE: 02-SEP-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: US 07/880,220
PRIOR APPLICATION DATA:
FILING DATE: 09-OCT-1991
APPLICATION NUMBER: US 07/773,229
PRIOR APPLICATION DATA:
FILING DATE: 10-MAY-1991
APPLICATION NUMBER: US 07/698,709
ATTORNEY/AGENT INFORMATION:
NAME: Reiter, Stephen E.
REGISTRATION NUMBER: 31,192
REFERENCE/DOCKET NUMBER: P41 9806
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-546-1995
TELEFAX: 619-546-9392
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 513 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-300-584-2

Query Match 99.7%; Score 2763; DB 2; Length 513;
Best Local Similarity 99.4%; Pred. No. 1.1e-263;
Matches 510; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGAALKAFVFLISCSGAILGRSETQCLFFNANWEKDRNTQTGVPCYGDKKRRHC 60
DB 1 MGAALKAFVFLISCSGAILGRSETQCLFFNANWEKDRNTQTGVPCYGDKKRRHC 60
QY 61 FATWKNISGSIEIVKQGWLDINCVDRTDCVKKDSPEVYFCCCGNNCKNEKFSYFPEM 120
DB 61 FATWKNISGSIEIVKQGWLDINCVDRTDCVKKDSPEVYFCCCGNNCKNEKFSYFPEM 120
QY 121 EVTQPTSNPTPKPPYNNILLYSLVPLMLIAGIVICAFWVYRHHKWAYPPVLVPTQDGP 180
DB 121 EVTQPTSNPTPKPPYNNILLYSLVPLMLIAGIVICAFWVYRHHKWAYPPVLVPTQDGP 180
QY 181 PPSPLLGLKPLQLLEVKARGFCGVKQAQLLNEYVAVKIFPIQDKQSNQNEYEVYSLPG 240
DB 181 PPSPLLGLKPLQLLEVKARGFCGVKQAQLLNEYVAVKIFPIQDKQSNQNEYEVYSLPG 240
QY 241 MKHENILQFTGAEKRGTSVDVLDLWLTATFHEKSLDSDFLKANYVSNOLCHIAETWARGL 300
DB 241 MKHENILQFTGAEKRGTSVDVLDLWLTATFHEKSLDSDFLKANYVSNOLCHIAETWARGL 300
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DB 301 AYLLHEDI PGLKDGHPAISHRDIKSNVLLKNLTACIADPGLALKFEAGKSAGDTHGV 360
QY 361 GTERYMAPEVLGAINFQDAFIRIDMYAGLVWELASRCTAAGDPVDEYMLPPEEITG 420
DB 361 GTERYMAPEVLGAINFQDAFIRIDMYAGLVWELASRCTAAGDPVDEYMLPPEEITG 420
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DB 421 QHPSLEDMQVWVHKKRPVLRDYWQKAGWMLCETIEBCMDHDAEALISAGCUGERIT 480
QY 481 QMORLNTIITTDIVTVVTVMTNVDPPPKESL 513
DB 481 QMORLNTIITTDIVTVVTVMTNVDPPPKESL 513

DB 481 QMORLNTIITTDIVTVVTVMTNVDPPPKESL 513

RESULT 4
US-08-459-951-10
Sequence 10, Application US/08459951
Patent No. 6093547
GENERAL INFORMATION:
APPLICANT: JIN, DONALD F
APPLICANT: OPPERMAN, HERMANN
APPLICANT: KUBERASAMPATH, THANGAVEL
APPLICANT: SMART, JOHN E
TITLE OF INVENTION: NOVEL MORPHOGEN CELL SURFACE RECEPTOR
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: PATENT ADMINISTRATOR, CREATIVE BIOMOLECULES,
ADDRESS: INC
STREET: 45 SOUTH STREET
CITY: HOPKINTON
STATE: MA
COUNTRY: USA
ZIP: 01748
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/459,951
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/357,533
FILING DATE: 16-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: KELLY, ROBIN D
REGISTRATION NUMBER: 34,637
REFERENCE/DOCKET NUMBER: CRP-073FW
TELECOMMUNICATION INFORMATION:
TELEPHONE: (508)-435-9001
TELEFAX: (508)-435-0992
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 513 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURES:
NAME/KEY: Protein
LOCATION: 1..513
OTHER INFORMATION: /note="MOUSE ACTIVIN RECEPTOR"
US-08-459-951-10

Query Match 99.7%; Score 2763; DB 3; Length 513;
Best Local Similarity 99.4%; Pred. No. 1.1e-263;
Matches 510; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGAALKAFVFLISCSGAILGRSETQCLFFNANWEKDRNTQTGVPCYGDKKRRHC 60
DB 1 MGAALKAFVFLISCSGAILGRSETQCLFFNANWEKDRNTQTGVPCYGDKKRRHC 60
QY 61 FATWKNISGSIEIVKQGWLDINCVDRTDCVKKDSPEVYFCCCGNNCKNEKFSYFPEM 120
DB 61 FATWKNISGSIEIVKQGWLDINCVDRTDCVKKDSPEVYFCCCGNNCKNEKFSYFPEM 120
QY 121 EVTQPTSNPTPKPPYNNILLYSLVPLMLIAGIVICAFWVYRHHKWAYPPVLVPTQDGP 180
DB 121 EVTQPTSNPTPKPPYNNILLYSLVPLMLIAGIVICAFWVYRHHKWAYPPVLVPTQDGP 180
QY 181 PPSPLLGLKPLQLLEVKARGFCGVKQAQLLNEYVAVKIFPIQDKQSNQNEYEVYSLPG 240
DB 181 PPSPLLGLKPLQLLEVKARGFCGVKQAQLLNEYVAVKIFPIQDKQSNQNEYEVYSLPG 240

QY 241 MKHENILQFIGAEKRGTSVDVLDLITAFHEKSGSLDFLKVANVSNOLCHIAETMARGL 300
DB 241 MKHENILQFIGAEKRGTSVDVLDLITAFHEKSGSLDFLKVANVSNOLCHIAETMARGL 300
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DB 301 AYLHEDIPLGDKGHPAISHERDIKSNVLLKNNLTACIADFLGALKFEAGKSAGDTHGQV 360
QY 361 GTRRYMAPEVLEGAINFODAFLRIDMYAMGLVLMELASRCTAAGDPVDEYMLPFEERIG 420
DB 361 GTRRYMAPEVLEGAINFODAFLRIDMYAMGLVLMELASRCTAAGDPVDEYMLPFEERIG 420
QY 421 QHPSLEDQMGEVHVHKKRPVLDYMQKHAGMAMLCETIEECWHDHAEARLSAGCVGERIT 480
DB 421 QHPSLEDQMGEVHVHKKRPVLDYMQKHAGMAMLCETIEECWHDHAEARLSAGCVGERIT 480
QY 481 QMORLTNIITTEDIVTVMVTNVDVFPKSSSL 513
DB 481 QMORLTNIITTEDIVTVMVTNVDVFPKSSSL 513

RESULT 5

US-08-738-168B-13
; Sequence 13, Application US/08738168B
; Patent No. 6132988
; GENERAL INFORMATION:
; APPLICANT: Sugino, Hiromu
; APPLICANT: Nakamura, Takamori
; APPLICANT: Shouji, Hiroki
; TITLE OF INVENTION: NEURONAL CELL-SPECIFIC RECEPTOR PROTEIN
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
; STREET: 130 Water Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/738,168B
; FILING DATE: 25-OCT-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 280939/1995
; FILING DATE: 27-OCT-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 174909/1996
; FILING DATE: 04-JUL-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Resnick, David S.
; REGISTRATION NUMBER: 34,235
; REFERENCE/DOCKET NUMBER: 342/46901
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-523-3400
; TELEFAX: 617-523-6440
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 513 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-738-168B-13

Query Match 99.7%; Score 2763; DB 3; Length 513;
Best Local Similarity 99.4%; Pred. No. 1.1e-263;
Matches 510; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGAARKLAPAVFLISCSGAILGRSETQCLFFNANWEKORTNQIGVPCYGDKDKRHC 60

DB 1 MGAARKLAPAVFLISCSGAILGRSETQCLFFNANWEKORTNQIGVPCYGDKDKRHC 60
QY 61 PATWNTSGSIEIVKQGCWLDINCIDRTDCVEKKDSPEVYFCCBGMCMNEKESYPPEM 120
DB 61 PATWNTSGSIEIVKQGCWLDINCIDRTDCIEKKDSPEVYFCCBGMCMNEKESYPPEM 120
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DB 421 QHPSLEDQMGEVHVHKKRPVLDYMQKHAGMAMLCETIEECWHDHAEARLSAGCVGERIT 480
QY 481 QMORLTNIITTEDIVTVMVTNVDVFPKSSSL 513
DB 481 QMORLTNIITTEDIVTVMVTNVDVFPKSSSL 513

RESULT 6

US-08-476-123-2
; Sequence 2, Application US/08476123
; Patent No. 6162896
; GENERAL INFORMATION:
; APPLICANT: Mathews, Lawrence S.
; APPLICANT: Vale, Wylie W.
; APPLICANT: Tsuchida, Kunihiro
; TITLE OF INVENTION: CLONING AND RECOMBINANT PRODUCTION OF
; TITLE OF INVENTION: RECEPTOR(S) OF THE ACTIVIN/TGF-BETA SUPERFAMILY
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
; STREET: 444 South Flower Street, Suite 2000
; CITY: Los Angeles
; STATE: CA
; COUNTRY: USA
; ZIP: 90071
COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/476,123
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/485,061
; FILING DATE: 07-JUN-1995
; APPLICATION NUMBER: US 08/300,584
; FILING DATE: 02-SEP-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/880,220
; FILING DATE: 08-MAY-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/773,229

FILING DATE: 09-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/698,709
FILING DATE: 10-MAY-1991
ATTORNEY/AGENT INFORMATION:
NAME: Reiter, Stephen E.
REGISTRATION NUMBER: 31,192
REFERENCE/DOCKET NUMBER: P41 9927
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-546-4737
TELEFAX: 619-546-9392
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 513 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-476-123-2

Query Match 99.7%; Score 2763; DB 3; Length 513;
Best Local Similarity 99.4%; Pred. No. 1.1e-263;
Matches 510; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGAALKAPAVFLISCSGAILGRSETQCLFFNANWEKDRNTQTGVPCYGDKRRHC 60
DB 1 MGAALKAPAVFLISCSGAILGRSETQCLFFNANWEKDRNTQTGVPCYGDKRRHC 60
QY 61 FATWKNISSIEIVKQGWLDINCVDRTDCVKKKDSPEVYFCCCEGNMCKEFSYFPEM 120
DB 61 FATWKNISSIEIVKQGWLDINCVDRTDCVKKKDSPEVYFCCCEGNMCKEFSYFPEM 120
QY 121 EVTQPTSNPVPKPPYNNILLYSLVPLMLIAGIVICAFWYRHHKMAYPVLVPTQDGP 180
DB 121 EVTQPTSNPVPKPPYNNILLYSLVPLMLIAGIVICAFWYRHHKMAYPVLVPTQDGP 180
QY 181 PPSPLILGLKPLQLLEKARGGCVKWAQLLNEYVAVKIPFPIODKQSWNEVEVYSLG 240
DB 181 PPSPLILGLKPLQLLEKARGGCVKWAQLLNEYVAVKIPFPIODKQSWNEVEVYSLG 240
QY 241 MKHENILQIFGAEKRGTSVDVLDMLITAFHEKGSLSDFLKNVYVSNQLCHIAETMARG 300
DB 241 MKHENILQIFGAEKRGTSVDVLDMLITAFHEKGSLSDFLKNVYVSNQLCHIAETMARG 300
QY 301 AYUHEDIPGLKQGHKPAISHRDIKSKNVLKNNLTACTIADFGALKEAGKSGDTHGQV 360
DB 301 AYUHEDIPGLKQGHKPAISHRDIKSKNVLKNNLTACTIADFGALKEAGKSGDTHGQV 360
QY 361 GTRRYMAPEVEGAINFORDAFLRIDMYAMGLVWLWELASRCTAAGDPVDEYMLPFEETG 420
DB 361 GTRRYMAPEVEGAINFORDAFLRIDMYAMGLVWLWELASRCTAAGDPVDEYMLPFEETG 420
QY 421 QHPSLEDQVYVHKKRPVLRDYWKQHGAMMLCETIEECWHDHAEARLSAGCVGERIT 480
DB 421 QHPSLEDQVYVHKKRPVLRDYWKQHGAMMLCETIEECWHDHAEARLSAGCVGERIT 480
QY 481 QMORLTNIITTDIVTVVTVMTVNDVPPPKESL 513
DB 481 QMORLTNIITTDIVTVVTVMTVNDVPPPKESL 513

RESULT 7

US-08-738-168B-5
Sequence 5, Application US/08738168B
Patent No. 6132988
GENERAL INFORMATION:
APPLICANT: Sugino, Hiromu
APPLICANT: Nakamura, Takanori
APPLICANT: Shouji, Hiroki
TITLE OF INVENTION: NEURONAL CELL-SPECIFIC RECEPTOR PROTEIN
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
STREET: 130 Water Street

CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/738,168B
FILING DATE: 25-OCT-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 280939/1995
FILING DATE: 27-OCT-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 174909/1996
FILING DATE: 04-JUL-1996
ATTORNEY/AGENT INFORMATION:
NAME: Resnick, David S.
REGISTRATION NUMBER: 34,235
REFERENCE/DOCKET NUMBER: 342/46901
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
TELEFAX: 617-523-6440
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 521 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-738-168B-5

Query Match 99.2%; Score 2749; DB 3; Length 521;
Best Local Similarity 97.9%; Pred. No. 2.6e-262;
Matches 510; Conservative 3; Mismatches 0; Indels 8; Gaps 1;

QY 1 MGAALKAPAVFLISCSGAILGRSETQCLFFNANWEKDRNTQTGVPCYGDKRRHC 60
DB 1 MGAALKAPAVFLISCSGAILGRSETQCLFFNANWEKDRNTQTGVPCYGDKRRHC 60
QY 61 FATWKNISSIEIVKQGWLDINCVDRTDCVKKKDSPEVYFCCCEGNMCKEFSYFPEM 120
DB 61 FATWKNISSIEIVKQGWLDINCVDRTDCVKKKDSPEVYFCCCEGNMCKEFSYFPEM 120
QY 121 EVTQPTSNPVPKPPYNNILLYSLVPLMLIAGIVICAFWYRHHKMAYPVLVPTQDGP 176
DB 121 EVTQPTSNPVPKPPYNNILLYSLVPLMLIAGIVICAFWYRHHKMAYPVLVPTQDGP 180
QY 177 ----DEGPPPPSPPLGLKPLQLLEKARGGCVKWAQLLNEYVAVKIPFPIODKQSWNE 232
DB 181 IMIEDGPPPPSPPLGLKPLQLLEKARGGCVKWAQLLNEYVAVKIPFPIODKQSWNE 240
QY 233 YEVYSLPGMKHENILQIFGAEKRGTSVDVLDMLITAFHEKGSLSDFLKNVYVSNQLCHI 292
DB 241 YEVYSLPGMKHENILQIFGAEKRGTSVDVLDMLITAFHEKGSLSDFLKNVYVSNQLCHI 300
QY 293 AETMARGIAYLHEDIPLKQGHKPAISHRDIKSKNVLKNNLTACTIADFGALKEAGKSG 352
DB 301 AETMARGIAYLHEDIPLKQGHKPAISHRDIKSKNVLKNNLTACTIADFGALKEAGKSG 360
QY 353 AGDTHEQVGTTRYMAPEVEGAINFORDAFLRIDMYAMGLVWLWELASRCTAAGDPVDEY 412
DB 361 AGDTHEQVGTTRYMAPEVEGAINFORDAFLRIDMYAMGLVWLWELASRCTAAGDPVDEY 420
QY 413 LPFEEIIGHPSLEDQVYVHKKRPVLRDYWKQHGAMMLCETIEECWHDHAEARLSA 472
DB 421 LPFEEIIGHPSLEDQVYVHKKRPVLRDYWKQHGAMMLCETIEECWHDHAEARLSA 480
QY 473 GCWGERITQMORLTNIITTDIVTVVTVMTVNDVPPPKESL 513
DB 481 GCWGERITQMORLTNIITTDIVTVVTVMTVNDVPPPKESL 521

RESULT 8

US-08-738-168B-15
; Sequence 15, Application US/08738168B
; Patent No. 6132988
; GENERAL INFORMATION:
; APPLICANT: Sugino, Hiromu
; APPLICANT: Nakamura, Takahori
; APPLICANT: Shouji, Hiroki
; TITLE OF INVENTION: NEURONAL CELL-SPECIFIC RECEPTOR PROTEIN
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
; STREET: 130 Water Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/738.168B
; FILING DATE: 25-OCT-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 280939/1995
; FILING DATE: 27-OCT-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 174909/1996
; FILING DATE: 04-JUL-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Resnick, David S.
; REGISTRATION NUMBER: 34,235
; REFERENCE/DOCKET NUMBER: 342/46901
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-523-3400
; TELEFAX: 617-523-6440
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 514 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-738-168B-15

Query Match 89.6%; Score 2482.5; DB 3; Length 514;
Best Local Similarity 87.7%; Pred. No. 4.9e-236;
Matches 451; Conservative 37; Mismatches 25; Indels 1; Gaps 1;
QY 1 MGAARKLAFVFLISCSG-GAILGRSETQECIFFNANWEKDRNTGTGVEPCYGDKKRH 59
DB 1 MGAATKLAFAVFLISCSGAGSILGRSETRECIYYNANWEKDRNTGTGVEPCYGDNDKKH 60
QY 60 CPATWKNISGSIIEVKQCLDDINCYDRTDCEKSDSPYVFCCEGMNCKEFSYPE 119
DB 61 CPATWKNISGSIIEVKQCLDDINCYNKSKTEKSDSPVFFCCCEGNYCNKFSYSP 120
QY 120 MEVTOPTSNPTKPPYNYLLISLAPLMILAGIVICAFYVYRHKKMAYPPVLPTDGP 179
DB 121 MEVTOPTSNPTKPPYNYLLISLAPLMILAGIVICAFYVYRHKKMAYPPVLPTDGP 180
QY 180 PPPSPFLGLKPLQLLEVKGRCVWKAQLNLEYVAVKIPFIQDKOSQWNEYEVSLP 239
DB 181 PPPSPFLGLKPLQLLEVKGRCVWKAQLNLEYVAVKIPFIQDKOSQWNEYEVSLP 240
QY 240 GKHENILIOPTGAEKRGTSVDVLDLITAFHEKSGSLDFLKANTVSNQLCHIAETWARG 299
DB 241 GKHENILYFTGAKEKRGTLDTDLWLTAFHEKSGSLDYLKANTVSNQLCHIAETWARG 300
QY 300 LAYLHEDIPLGDKGHPKPAISHRDIKSKNVLKNNLTACIADFGLALKEAGKSAGDTHGQ 359

DB 301 LSHLHEDIPLGDKGHPKPAISHRDIKSKNVLKNNLTACIADFGLALKEAGKSAGDTHGQ 360
QY 360 VGTTRYNAPEVLECAINFORDAFLRIDMYAMGLVLMELASRCTAAADGPVDEYMLPFEEKI 419
DB 361 VGTTRYNAPEVLECAINFORDAFLRIDMYAFGLVLMELASRCTASDGPVDEYMLPFEEV 420
QY 420 GQHPSEDMQEVVVVHKRPVLRDYQKHAGVAMLCETITECDWHDABEALSLAGCVCGERI 479
DB 421 GQHPSEDMQEVVVVHKRPILRECMQKHAGVAMLCETITECDWHDABEALSLAGCVCERI 480
QY 480 TQCRLENIITTTEDIVTVVTVMTVNVDPKPSL 513
DB 481 IQMQLNIITTTEDIVTVVTVMTVNVDPKPSL 514
RESULT 9
US-08-300-584-4
; Sequence 4, Application US/08300584
; Patent No. 5885794
; GENERAL INFORMATION:
; APPLICANT: Mathews, Lawrence S.
; APPLICANT: Vale, Willie W.
; TITLE OF INVENTION: CLONING AND RECOMBINANT PRODUCTION OF
; TITLE OF INVENTION: RECEPTOR(S) OF THE ACTIVIN/TGF-BETA SUPERFAMILY
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
; STREET: 444 South Flower Street, Suite 2000
; CITY: Los Angeles
; STATE: CA
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/300.584
; FILING DATE: 02-SEP-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/880,220
; FILING DATE: 08-MAY-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/773,229
; FILING DATE: 09-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/698,709
; FILING DATE: 10-MAY-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Reiter, Stephen E.
; REGISTRATION NUMBER: 31,192
; REFERENCE/DOCKET NUMBER: P41 9806
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-546-1995
; TELEFAX: 619-546-9392
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 510 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-300-584-4
Query Match 71.2%; Score 1971.5; DB 2; Length 510;
Best Local Similarity 67.9%; Pred. No. 1.2e-185;
Matches 349; Conservative 85; Mismatches 75; Indels 5; Gaps 3;
QY 1 MGAARKLAFVFLISCSGAILGRSETQECIFFNANWEKDRNTGTGVEPCYGDKKRH 60
DB 1 MGAASVALTFLLLATFRAGSGHDEVETRECIYYNANWEKDRNTGTGVEPCYGDKKRH 60


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STATE: MA
COUNTRY: USA
ZIP: 01748
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/357,533A
FILING DATE: 16-DEC-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: KELLY, ROBIN D
REGISTRATION NUMBER: 34,637
REFERENCE/DOCKET NUMBER: CRP-073FW
TELECOMMUNICATION INFORMATION:
TELEPHONE: (508)-435-0901
TELEFAX: (508)-435-0992
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 536 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Protein
LOCATION: 1..536
OTHER INFORMATION: /note= "HUMAN ACTIVIN TYPE II"
OTHER INFORMATION: RECEPTOR"
US-08-357-533A-12

Query Match 69.7%; Score 1931; DB 2; Length 536;
Best Local Similarity 64.7%; Pred. No. 1.3e-181;
Matches 343; Conservative 86; Mismatches 77; Indels 24; Gaps 2;

QY 8 AFAPVLISCSGAILGRSETQECLEFFNANWEKDRNTQGTVPYCGDKKRRHCFATWNI 67
DB 7 ALALLWGLCAGSGRGEATRECIYNNANWELERTNQSLERCEGEQDKRLHCYASWANS 66
QY 68 SGSTIEIVKQGWLDINDCYDRTDCVEKXDSSEVYFCCCEGNCMEKPSYFPEMEVTPQTS 127
DB 67 SGTIELVKKGWLDINDCYDRTDCVEKXDSSEVYFCCCEGNCMEKPSYFPEMEVTPQTS 126
QY 128 NPVTPEKPYNNILLYSLVPLMLIAGIVICAFVYRHHKMAYPPLV 173
DB 127 EPPPTAPTLTLLVLAISLLPIGGLSLVLLAFWYRHRKPPYGHVDIHEVRCQWRGRD 186
QY 174 -----PTQDPGPPPPSLLGLKPLQLLEVKARGPGCVWKAQLNLYVAVKIPPIQ 224
DB 187 GCADSFKPLFPQDPGPPPPSLLGLKPLQLLEVKARGPGCVWKAQLNLYVAVKIPPIQ 246

Query Match 69.7%; Score 1931; DB 2; Length 536;
Best Local Similarity 64.7%; Pred. No. 1.3e-181;
Matches 343; Conservative 86; Mismatches 77; Indels 24; Gaps 2;

QY 8 AFAPVLISCSGAILGRSETQECLEFFNANWEKDRNTQGTVPYCGDKKRRHCFATWNI 67
DB 7 ALALLWGLCAGSGRGEATRECIYNNANWELERTNQSLERCEGEQDKRLHCYASWANS 66
QY 68 SGSTIEIVKQGWLDINDCYDRTDCVEKXDSSEVYFCCCEGNCMEKPSYFPEMEVTPQTS 127
DB 67 SGTIELVKKGWLDINDCYDRTDCVEKXDSSEVYFCCCEGNCMEKPSYFPEMEVTPQTS 126
QY 128 NPVTPEKPYNNILLYSLVPLMLIAGIVICAFVYRHHKMAYPPLV 173
DB 127 EPPPTAPTLTLLVLAISLLPIGGLSLVLLAFWYRHRKPPYGHVDIHEVRCQWRGRD 186
QY 174 -----PTQDPGPPPPSLLGLKPLQLLEVKARGPGCVWKAQLNLYVAVKIPPIQ 224
DB 187 GCADSFKPLFPQDPGPPPPSLLGLKPLQLLEVKARGPGCVWKAQLNLYVAVKIPPIQ 246
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QY 225 DKQSWNEVEVYSLPQKHENILQFTGAERKGTSDVDLWLITAFHEKGSLSDFLKANYV 284
Db 247 DKQSWQSEREIFSTPGKHENILQFTAAEKXGNSLEVLWLITAFHDKGSLDYLKGNII 306
QY 285 SNWOLCHIAETMARGLAYLHEDIPGLK-DGHPKPAISHRDIKSNVLLKNNLTACIADFG 343
Db 307 TWNELCHVAETMSRGLSYLHEDVPWCRGEGHKPSIAHRDFKSNVLLKSDLTAVLADPGL 366
QY 344 ALKPEAGKSGDTHGQVGTTRYMAPEVLEGAINFORDAFLRIDMYAMGLVWELASRCTA 403
Db 367 AVRPEKPGPDTHGQVGTTRYMAPEVLEGAINFORDAFLRIDMYAMGLVWELASRCTA 426
QY 404 ADGPVDEYMLPFEETIGQPSLEDMQSVVHKKRPVLSYDYNKOKHAGMAMLCETIEECWD 463
Db 427 ADGPVDEYMLPFEETIGQPSLEDMQSVVHKKRPVLSYDYNKOKHAGMAMLCETIEECWD 486
QY 464 HDAEARLSAGCVGERITQORLTNIITTEDIVTVVTMTNVDPPPKESSL 513
Db 487 HDAEARLSAGCVGERITQORLTNIITTEDIVTVVTMTNVDPPPKESSI 536

RESULT 13

US-08-459-951-12
; Sequence 12, Application US/08459951
; Patent No. 6093547
; GENERAL INFORMATION:
; APPLICANT: JIN, DONALD F
; APPLICANT: OPPERMANN, HERMANN
; APPLICANT: KUBERASAMPATH, THANGAVEL
; APPLICANT: SMART, JOHN E
; TITLE OF INVENTION: NOVEL MORPHOGEN CELL SURFACE RECEPTOR
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PATENT ADMINISTRATOR, CREATIVE BIOMOLECULES,
; ADDRESSEE: INC
; STREET: 45 SOUTH STREET
; CITY: HOPKINTON
; STATE: MA
; COUNTRY: USA
; ZIP: 01748
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/459,951
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/357,533
; FILING DATE: 16-DEC-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: KELLY, ROBIN D
; REGISTRATION NUMBER: 34,637
; REFERENCE/DOCKET NUMBER: CRP-073FW
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (508)-435-9001
; TELEFAX: (508)-435-0992
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 536 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1-536
; OTHER INFORMATION: /note= "HUMAN ACTIVIN TYPE II
; OTHER INFORMATION: RECEPTOR"

US-08-459-951-12

Query Match 69.7%; Score 1931; DB 3; Length 536;
Best Local Similarity 64.7%; Pred. No. 1.3e-181;
Matches 343; Conservative 86; Mismatches 77; Indels 24; Gaps 2;
QY 8 AFAPVLISCSGAILGRSETQRCLEFFNANWEKDRNTQGVPCYCDKDKRRCFCFATWKNI 67
Db 7 ALALLNGSLCAGSGEARETRCIYNNANWELERTNQSLGRCEGCEQDKRLHYASWANS 66
QY 66 SGIISIVKQGCWLDINDICNDYDTCVVEKSDSPVYFCCCEGNMNCNEKFSYFPEMEVTOPTS 127
Db 67 SGTIELVKKGCWLDINDICNDYDTCVVEKSDSPVYFCCCEGNMNCNEKFSYFPEMEVTOPTS 126
QY 128 NVETKPPPYNNILLYSLVPLMLIAGIVICAPWVYRHKKMAYPVVLV----- 173
Db 127 EPTTAPTLLITVLAISLPIGGLSLVLLAFWYRHRKPPYGHVDIHEVRQCORWAGRD 186
QY 174 -----PTODPGPPPPSPILGLKPIQLLEVKARGFGCVKQAQLNNEYVAVKIPPIQ 224
Db 187 GCADSFKPLPFQDPGPPPPSPILGLKPIQLLEVKARGFGCVKQAQLMNDFAVKIPPIQ 246
QY 225 DKQSWNEVEVYSLPQKHENILQFTGAERKGTSDVDLWLITAFHEKGSLSDFLKANYV 284
Db 247 DKQSWQSEREIFSTPGKHENILQFTAAEKXGNSLEVLWLITAFHDKGSLDYLKGNII 306
QY 285 SNWOLCHIAETMARGLAYLHEDIPGLK-DGHPKPAISHRDIKSNVLLKNNLTACIADFG 343
Db 307 TWNELCHVAETMSRGLSYLHEDVPWCRGEGHKPSIAHRDFKSNVLLKSDLTAVLADPGL 366
QY 344 ALKPEAGKSGDTHGQVGTTRYMAPEVLEGAINFORDAFLRIDMYAMGLVWELASRCTA 403
Db 367 AVRPEKPGPDTHGQVGTTRYMAPEVLEGAINFORDAFLRIDMYAMGLVWELASRCTA 426
QY 404 ADGPVDEYMLPFEETIGQPSLEDMQSVVHKKRPVLSYDYNKOKHAGMAMLCETIEECWD 463
Db 427 ADGPVDEYMLPFEETIGQPSLEDMQSVVHKKRPVLSYDYNKOKHAGMAMLCETIEECWD 486
QY 464 HDAEARLSAGCVGERITQORLTNIITTEDIVTVVTMTNVDPPPKESSL 513
Db 487 HDAEARLSAGCVGERITQORLTNIITTEDIVTVVTMTNVDPPPKESSI 536

RESULT 14

US-08-357-533A-11
; Sequence 11, Application US/08357533A
; Patent No. 5831050
; GENERAL INFORMATION:
; APPLICANT: JIN, DONALD F
; APPLICANT: OPPERMANN, HERMANN
; APPLICANT: KUBERASAMPATH, THANGAVEL
; APPLICANT: SMART, JOHN E
; TITLE OF INVENTION: NOVEL MORPHOGEN CELL SURFACE RECEPTOR
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PATENT ADMINISTRATOR, CREATIVE BIOMOLECULES,
; ADDRESSEE: INC
; STREET: 45 SOUTH STREET
; CITY: HOPKINTON
; STATE: MA
; COUNTRY: USA
; ZIP: 01748
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/357,533A
; FILING DATE: 16-DEC-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: KELLY, ROBIN D
; REGISTRATION NUMBER: 34,637
; REFERENCE/DOCKET NUMBER: CRP-073FW

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (508)-435-9001
 TELEFAX: (508)-435-0992
 INFORMATION FOR SEQ ID NO: 11:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 513 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 FEATURE:
 NAME/KEY: Protein
 LOCATION: 1..513
 OTHER INFORMATION: /note= "RAT ACTIVIN TYPE II
 RECEPTOR"
 US-08-357-533A-11

Query Match 69.2%; Score 1915.5; DB 2; Length 513;
 Best Local Similarity 67.1%; Pred. No. 4e-180;
 Matches 341; Conservative 85; Mismatches 79; Indels 3; Gaps 3;

QY 8 AFAPFLISCSGAILGRSETQCLFPANWEKDRTNQTVGVCYGDQKRRHCFATWKNI 67
 DB 7 ALALLWGSUCAGSGEATRECIYNNANWELRTNOSGLRCEGEQDGLHCYASWNS 66
 QY 68 SGIIEIVKQGWLDIDNCYDRDTCVCEKQSPVYFCCCEGNMCKEKFSPFMEVTPQTS 127
 DB 67 SGTIELVKKGWLDIDNCYDRQCVATEENPQVYFCCCEGNFCNERFTHLPEPGGPVTV 126
 QY 128 NPWTPKPPYNNILLYSLVPLMLIAGIVICAFVYRHHKMAYPVVLVPTQDGPSPPL 187
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 QY 486 TNIITTEDIVVTVMVTVNDVPPKESL 513
 DB 486 VNGSTSDCLVSLVTSSTNVLDLPPKESI 513

RESULT 15

US-08-459-009-11
 Sequence 11, Application US/08459009
 Patent No. 5861479
 GENERAL INFORMATION:
 APPLICANT: JIN, DONALD F
 APPLICANT: OPPERMAN, HERMANN
 APPLICANT: KUBERASAMPATH, THIANGAVEL
 APPLICANT: SMART, JOHN E
 TITLE OF INVENTION: NOVEL MORPHOGEN CELL SURFACE RECEPTOR
 NUMBER OF SEQUENCES: 12
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: PATENT ADMINISTRATOR, CREATIVE BIOMOLECULES,
 ADDRESSEE: INC
 STREET: 45 SOUTH STREET

CITY: HOPKINTON
 STATE: MA
 COUNTRY: USA
 ZIP: 01748
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/459,009
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/357,533
 FILING DATE: 16-DEC-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: KELLY, ROBIN D
 REGISTRATION NUMBER: 34,637
 REFERENCE/DOCKET NUMBER: CRP-073FW
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (508)-435-9001
 TELEFAX: (508)-435-0992
 INFORMATION FOR SEQ ID NO: 11:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 513 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 FEATURE:
 NAME/KEY: Protein
 LOCATION: 1..513
 OTHER INFORMATION: /note= "RAT ACTIVIN TYPE II
 RECEPTOR"
 US-08-459-009-11

Query Match 69.2%; Score 1915.5; DB 2; Length 513;
 Best Local Similarity 67.1%; Pred. No. 4e-180;
 Matches 341; Conservative 85; Mismatches 79; Indels 3; Gaps 3;

QY 8 AFAPFLISCSGAILGRSETQCLFPANWEKDRTNQTVGVCYGDQKRRHCFATWKNI 67
 DB 7 ALALLWGSUCAGSGEATRECIYNNANWELRTNOSGLRCEGEQDGLHCYASWNS 66
 QY 68 SGIIEIVKQGWLDIDNCYDRDTCVCEKQSPVYFCCCEGNMCKEKFSPFMEVTPQTS 127
 DB 67 SGTIELVKKGWLDIDNCYDRQCVATEENPQVYFCCCEGNFCNERFTHLPEPGGPVTV 126
 QY 128 NPWTPKPPYNNILLYSLVPLMLIAGIVICAFVYRHHKMAYPVVLVPTQDGPSPPL 187
 DB 127 EPPPTAPTLLTVLAYSLLPIGGLSLIVLLAFMYRHRKPPYGHVDI-HEDPGPPPSPLV 185
 QY 188 GLKPLQLLEVKARGFCVWKAQLNVEYVAVKIPPIQDKQSWNEVYVSLPGMKHENIL 247
 DB 186 GLKPLQLLEIKARGFCVWKAQLMDFVAVKIPPIQDKQSWNSREIFSTPGMKHENIL 245
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 DB 246 QFIGAEKRGTS-VDVDLMLITAFHEKGSISDFLKANVSNWOLCHIAETMARGLAYLHED 305
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 DB 306 VPCRCGEHKPSIAHRDFKSNVLLKSDTLAVLADFGLAVERPEPGPGDTHGQVGTTRY 365
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 DB 365 MAPEVLEGAINFORDAFLRIDMYAMGLVWLWELASRCTAADGPDVRYMLPFEEIQQHPSL 425
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 DB 426 EELQEVVVKKRPVLRDYNQKHAGMAMLCETIEECWHDHDAEARLSAGCVGERITQMORL 485

QY 486 TNIITTEDIVVTMTVNDPPKESL 513
Db 486 VNGSTSDCIVSLVTSSTNVDLLEKESI 513

Search completed: June 28, 2004, 09:49:25
Job time : 24 secs

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OM nucleic - nucleic search, using sw model

Run on: June 26, 2004, 13:27:15 ; Search time 188 seconds
(without alignments)
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Perfect score: 2563
Sequence: 1 ctccgaggaagaccagggg.....aacacgtttcacaatagcc 2563

Scoring table: IDENTITY NUC
Gapop 10_0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	2556.4	99.7	2563	3	US-08-738-168B-12
3	2556.4	99.7	2563	3	US-08-476-123-1
4	2057.4	80.3	2122	3	US-08-738-168B-4
5	1495.4	58.3	1563	3	US-08-738-168B-11
6	983.4	38.4	2313	3	US-08-738-168B-14
7	678.2	26.5	2335	3	US-08-300-584-3
8	678.2	26.5	2335	3	US-08-476-123-3
9	316.8	12.4	2625	2	US-08-357-533A-1
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11	316.8	12.4	2625	2	US-08-459-951-1
12	294	11.5	294	3	US-08-738-168B-8
13	168.2	6.6	2090	2	US-08-445-520B-8
14	168.2	6.6	2090	3	US-08-451-946B-7
15	168.2	6.6	2090	3	US-08-446-938B-7
16	168.2	6.6	2090	3	US-08-311-703A-7
17	168.2	6.6	2090	3	US-08-446-939B-7
18	168.2	6.6	2090	3	US-08-183-543-7
19	168.2	6.6	2090	3	US-08-446-936A-7
20	168.2	6.6	2090	3	US-08-239-864A-10
21	168.2	6.6	2090	4	US-09-898-361-17
22	168.2	6.6	2090	4	US-09-023-655-1325
23	168.2	6.6	2090	4	US-09-878-905-10
24	168.2	6.6	2090	5	PCT-US92-09326-3
25	168.2	6.6	2095	1	US-08-361-873A-1
26	168.2	6.6	5759	4	US-08-898-361-3
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28	160.8	6.3	1952	2	US-08-481-337A-7	Sequence 7, Appli
29	160.8	6.3	1952	3	US-09-382-256-17	Sequence 17, Appl
30	160.8	6.3	1952	3	US-09-395-115-17	Sequence 17, Appl
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ALIGNMENTS

RESULT 1
US-08-300-584-1
; Sequence 1, Application US/08300584
; Patent No. 5885794
; GENERAL INFORMATION:
; APPLICANT: Mathews, Lawrence S.
; APPLICANT: Vele, Wylie W.
; TITLE OF INVENTION: CLONING AND RECOMBINANT PRODUCTION OF
; TITLE OF INVENTION: RECEPTOR(S) OF THE ACTIVIN/TGF-BETA SUPERFAMILY
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: pretty, Schroeder, Brueggemann & Clark
; STREET: 444 South Flower Street, Suite 2000
; CITY: Los Angeles
; STATE: CA
; COUNTRY: USA
; ZIP: 90071

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: US/08/300,584
APPLICATION NUMBER: US/08/300,584
FILING DATE: 02-SEP-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/880,220
FILING DATE: 08-MAY-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/773,229
FILING DATE: 09-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/698,709
FILING DATE: 10-MAY-1991
ATTORNEY/AGENT INFORMATION:
NAME: Reiter, Stephen E.
REGISTRATION NUMBER: 31,192
REFERENCE/DOCKET NUMBER: P41 9806
TELEPHONE: 619-546-9392
TELEFAX: 619-546-9392
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2563 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:

NAME/KEY: CDS
LOCATION: 71..1609
US-08-300-584-1

Query Match 99.7%; Score 2556.4; DB 2; Length 2563;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2557; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

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DB 1441 GATAGAAAGATTTGGGATCATATGATGCAAGGCAAGTTATFAGCTGGATGTGTAGTGA 1500
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DB 1681 TTAGTTGATTTTCTGTGTGAAATCAGTAGGATGCTCCAGGACATGTACGCAAGCAGCCC 1740
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QY 1861 CTCGAAGAAATGTGGCCCTCTCCAAATCAAGATCTTTTGGACCTGGCTTAATCAAGTATTT 1920
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QY 1921 GCMAAATGACATCAGATTTCTTAATGTCTGTGAGAGACACTAATTCCTTAAATGAAT 1980
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QY 2041 ATTGCAATTTGCTGTGTTCTTATAAATGACCTATTGTAATGCCAATCACAACAGCTCTG 2100
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SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/476,123

FILING DATE: 07-JUN-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/485,061

FILING DATE: 07-JUN-1995

APPLICATION NUMBER: US 08/300,584

FILING DATE: 02-SEP-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/880,220

FILING DATE: 08-MAY-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/773,229

FILING DATE: 09-OCT-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/698,709

FILING DATE: 10-MAY-1991

ATTORNEY/AGENT INFORMATION:

NAME: Reiter, Stephen E.

REGISTRATION NUMBER: 31,192

REFERENCE/DOCKET NUMBER: P41 9927

TELECOMMUNICATION INFORMATION:

TELEPHONE: 619-546-4737

TELEFAX: 619-546-9392

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 2563 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 71..1609

US-08-476-123-1

Query Match 99.7%; Score 2556.4; DB 3; Length 2563;
Best Local Similarity 99.8%; Pred. No 0;
Matches 2557; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

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QY	361	CCCTGAAGTGTCTTTTGTGCTGAGGCAATATGTGTAAGAAAAGTCTCTTATTT	420
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DB	901	CTTTCTTAAGGCTAATGTGCTCTCTGGAATCARTCTTGTCTATTTGAGAAACCATGGC	960
QY	961	TAGAGNTTGGCATATTTACATGAGGATATACCTGGCTTAAAGATGGCCACAGCCTGC	1020
DB	961	TAGAGNTTGGCATATTTACATGAGGATATACCTGGCTTAAAGATGGCCACAGCCTGC	1020
QY	1021	AATCTCTCCACAGGACATCAAAAGTAAATATGCTGTGTGAAAAAACAATCTCAGAGCTTG	1080
DB	1021	AATCTCTCCACAGGACATCAAAAGTAAATATGCTGTGTGAAAAAACAATCTCAGAGCTTG	1080
QY	1081	CATTCTGCTTGGGTTGGCTTAAAGTTCGAGGCTGSCAAGTCTGAGGTTGACACCCA	1140
DB	1081	CATTCTGCTTGGGTTGGCTTAAAGTTCGAGGCTGSCAAGTCTGAGGTTGACACCCA	1140
QY	1141	TGGGAGGTTGGTACCCGAGGTATATGGCTCCAGAGTGTGAGGGTGTCTATAAATTT	1200
DB	1141	TGGGAGGTTGGTACCCGAGGTATATGGCTCCAGAGTGTGAGGGTGTCTATAAATTT	1200
QY	1201	CCAAAGGACCGATTTCTGAGGATAGATATGTCGCCATGGATTAGTCTATGGGAAT	1260
DB	1201	CCAAAGGACCGATTTCTGAGGATAGATATGTCGCCATGGATTAGTCTATGGGAAT	1260
QY	1261	GGCTTCTGTTGCACTGCTGACAGATGGACCCCGTAGATGATGATCATGTTTACATTTGAGA	1320
DB	1261	GGCTTCTGTTGCACTGCTGACAGATGGACCCCGTAGATGATGATCATGTTTACATTTGAGA	1320
QY	1321	AGAAATTTGGCAGCATTCATCTCTGGAAGATATGACGAGTGTGTCATAAAAAAA	1380
DB	1321	AGAAATTTGGCAGCATTCATCTCTGGAAGATATGACGAGTGTGTCATAAAAAAA	1380
QY	1381	GAGGCTGTTTAAAGAGATTTATGGCAGAAACATGACGAAATGGCAATGCTCTGTGAAC	1440
DB	1381	GAGGCTGTTTAAAGAGATTTATGGCAGAAACATGACGAAATGGCAATGCTCTGTGAAC	1440
QY	1441	GATAGAGATGTTGGGATCATGATGACAGCCAGGTTATCAGCTGGATGTGAGGTGA	1500
DB	1441	GATAGAGATGTTGGGATCATGATGACAGCCAGGTTATCAGCTGGATGTGAGGTGA	1500
QY	1501	AGAAATTTCTCAGATGCAAGACTAACAAATATCAATCTACTACAGAGGACATTTGTAACGT	1560
DB	1501	AGAAATTTCTCAGATGCAAGACTAACAAATATCAATCTACTACAGAGGACATTTGTAACGT	1560

1301 CTGAGGTACTTTTGTGTGTGAGGCAATATGTATGAAAGATTTCTTTATTTTC 360
1423 CGGAGTGGAGTGCACACGCCCACTTCAATCCTGTATACCCGAGGACCACTTATTA 482
1441 TATCAGT 1500
1539 CTACAGAGGACATTTGTATACAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1598
1501 CTACAGAGGACATTTGTATACAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1560
1599 AATCTAGT 1658
1561 AATCTAGT 1620
1659 GCTGTCTAAGTAAGGAAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1718
1621 GCTGTCTAAGTAAGGAAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1680
1719 AGGCAATGTACCAAGGACGACCCCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1778
1681 AGGCAATGTACCAAGGACGACCCCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1740
1779 ACTTACTGTCTGT 1838
1741 ACTTACTGTCTGT 1800
1839 GTAAAGAACTTCTGAAATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1898
1801 GTAAAGAACTTCTGAAATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1860
1899 GGACCTGGCTTAATCAAGTATTTGCAAACTGTGTGTGTGTGTGTGTGTGTGTGT 1958
1861 GGACCTGGCTTAATCAAGTATTTGCAAACTGTGTGTGTGTGTGTGTGTGTGT 1920
1959 AGCTAATTTCTTAAATGAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2018
1921 ACCTAATTTCTTAAATGAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1980
2019 ATTTTAAAGAGGTAACCTTTTATTTGCAATTTGTGTGTGTGTGTGTGTGTGTGT 2078
1981 ATTTTAAAGAGGTAACCTTTTATTTGCAATTTGTGTGTGTGTGTGTGTGTGT 2040
2079 TGCCAAATGACACAGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2138
2041 TGCCAAATGACACAGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2100
2139 AAAGTGGGTACAGTAAGAGG 2160
2101 AAAGTGGGTACAGTAAGAGG 2122

RESULT 5

US-08-738-1688-11

Sequence 11, Application US/08738168B

Patent No. 6132988

GENERAL INFORMATION:

APPLICANT: Sugino, Hiromu

APPLICANT: Nakamura, Takao

APPLICANT: Shouji, Hiroki

TITLE OF INVENTION: NEURONAL CELL-SPECIFIC RECEPTOR PROTEIN

NUMBER OF SEQUENCES: 15

CORRESPONDENCE ADDRESS:

ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP

STREET: 130 Water Street

CITY: Boston

STATE: MA

COUNTRY: USA

ZIP: 02109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

Db 1639 ATCAATCAATGCAAAATCTCACAACATATATACCCAGGACATTTGTAACATGCTGA 1698
Qy 1565 AATATGTTGAGCAAAATGTTGATCTTCTCCAAAGAAATCTAGTCTATGATGGGACCGT 1624
Db 1699 AGATGTTGACAAACGTTGACTTTCCGCCCAAGGAATCAAGCTATGATACCTCA---- 1754
Qy 1625 CTGTACACACTGAGGACTGGGACTCTGAACTGGAGCTGCTAAAGTAAAGAAAGTGTAG 1684
Db 1755 -----GTCATACCGGACTCTGGTGCAGAGCTGCTAGCTAAGGGAACTTCTGC 1804
Qy 1685 TTGATTTTCTGTGTAATAGTAGAGTGCCTCCAGGACATGTACCAAGGACCGCTTG 1744
Db 1805 CTAACAGCAGATACGCGCAAGTCCAGTGAATCGAGGTGGTGTCTTTTGCAGATGT 1864
Qy 1745 TGGAAAGCATGATCTGGGAGATGGAATCTGGGAACCTTATCTGATCTGTCAGCACAGA 1804
Db 1865 CCGTTTGGAGCAGCGCTCTTCCAACTCGAGACTTGTTCATTCCTCAATGATGCC 1924
Qy 1805 TATGAAGAGAGTCTAAGGAAAGCTGCAGAACTGTAAAGAACTTCTGAAAGTGTACTG 1864
Db 1925 AAAGGACTTGTGACTTGCCTGCTTTTATTGGACACAAAGGAATGAA----- 1975
Qy 1865 AAGAAATGTCCTCTCCAAATCAAGATCTTTTGGACCTGGCTAATCAAGTATTGCAA 1924
Db 1976 -----GAAACATGAAGAAACACAAACCTCTCTTAATAAATGACA 2018
Qy 1925 AACTGACATCAGATTTCTTAATGCTGTGAGAGACACTAATTCCTTAATGA--ACTAC 1982
Db 2019 CCGTTTCTTTTAAACAGCTCAGAAAGACTTATATACAGTGTACTGCTAC 2078
Qy 1983 TGTATTTTAAATGAAGAACTTTTCAATTCAGATTTTAAAGGTAATTTTAT 2042
Db 2079 TTTTCTTTTAAATCAAGCAATTTCAATTCAGA-TTTAAAGGGTAACCTGTTTAT 2137
Qy 2043 TGCATTTGCTG--TGTTCATAAATGACTATTGTAATGCGCAACATGACAGCTGTG 2100
Db 2138 TGCATTTGCGTGTGTTCTCTCATGACTATTGTAAGTATCATATGACAGCTGTG 2197
Qy 2101 AATGTAGTGTGCTGCTTCTCTGTGACATAGTC-----ATCAAGTGGGTACAG 2152
Db 2198 AATGTTCCGTGTGCTGCTTCTGTGTATATATAAAGCTAAGGATCAACGTGGATATAT 2257
Qy 2153 TAAAGAGGCTTCAAGCAATTTTAACTTAACTCCCTCAACAA 2192
Db 2258 TAAAGAGGCTTCAAGCAGACTTTAACCCCTCAAAAAA 2297

RESULT 7

US-08-300-584-3
Sequence 3, Application US/08300584
Patent No. 5885794
GENERAL INFORMATION:
APPLICANT: Mathews, Lawrence S.
APPLICANT: Vale, Wylie W.
TITLE OF INVENTION: CLONING AND RECOMBINANT PRODUCTION OF
RECEPTOR(S) OF THE ACTIVIN/TGF-BETA SUPERFAMILY
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
STREET: 444 South Flower Street, Suite 2000
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/300,584
FILING DATE: 02-SEP-1994

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/880,220
FILING DATE: 08-MAY-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/773,223
FILING DATE: 09-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/698,709
FILING DATE: 10-MAY-1991
ATTORNEY/AGENT INFORMATION:
NAME: Reiter, Stephen E.
REGISTRATION NUMBER: 31,192
REFERENCE/DOCKET NUMBER: P41 9806
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-546-9392
TELEFAX: 619-546-9392
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2335 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
IMMEDIATE SOURCE:
CLONE: XACTR
FEATURE:
NAME/KEY: CDS
LOCATION: 468..1997
US-08-300-584-3

Query Match 26.5%; Score 678.2; DB 2; Length 2335;
Best Local Similarity 65.6%; Pred. No. 2.9e-177;
Matches 1037; Conservative 2; Mismatches 526; Indels 15; Gaps 3;

Qy 62 CTCGGAAATGGGAGCTGCTGCAAAAGTTGGCGTTCGCGCTTCTTCTTATCTTCTCT 121
Db 459 CCGAGGACATGGGGGCTCTGTAGCGCTGACTTTCTACTTCTTCTTGCACCTTCGCG 518
Qy 122 TCAGTGTCTATCTTGGCAGATCAGAAACTCAGGAGTCTTTTCTTTTAACTGTAATGG 181
Db 519 CGAGCTCAGGACAGATGAAGTGGAGAGAGTGCATCTATTACAAATGCCAACCTGG 578
Qy 182 GAAAGACAGACCAACCACTGCTTGAACCTGCTATGTTGATAAAGATAAAGCG 241
Db 579 GAATGGAGAGACCAACCAAGTGGGGTGGAGAGCTGGAGGGGAAAGAGCAGAGCGA 638
Qy 242 CGACATGTTTGTCTACCTGGAAGAAATTTCTGTTTCCATTTGAATGAAAGTGAAGCAAGT 301
Db 639 CTCACCTGTACCGCTCTTGGAGGAACTTCCGGCTTCTATAGAGCTGTTGAAAAAGGA 698
Qy 302 TGTGGCTGGATGATATCACTGCTATGACAGGACTGATTTGTTNGAAAAAAGAGACAGC 361
Db 699 TGTGGCTGGATGATCACTGTTTATGACAGAGGAATGTTTCCAGAGAGAAAGAAC 758
Qy 362 CTTGAAGTGTACTTTTGTGCTGTGAGGCAATATGTTAAAGTAAAGTCTCTTATTTT 421
Db 759 CCCCAGTCTTTTCTGCTGTGCGAGGAACTACTGCAACAAGAAATTTACTCAATTTG 818
Qy 422 CCGAGATGGAAGTACACAGCCCACTTCAATCTGTTACCGAGCCCACTTATAC 481
Db 819 CTTGAAGTGAAGCAATTTGATCCGAGGCCCA-----GCCGTGAGCTCCGTACTG 869
Qy 482 AACATTTCTGTGTTTCTTGGTACCACTAATGTTAAATGAGGAATTTGCTATTGTGCA 541
Db 870 AACATTTCTGTGTTTCTTGGTACCACTAATGTTAAATGAGGAATTTCTCTGCG 929
Qy 542 TTTTGGGTGTACAGACATCAAGATGCGCTACCTCTGTTACTTGTCTTCTACTCAAGAC 601
Db 930 TTTGATGTACCGTCTATCGAAAGCTCCCTACCGGCAATGTA---GAGATCAATGAGGAC 986
Qy 602 CCAGGACCAACCCCACTTCCCATTTACTAGGGTTGAAGCCATTTGAGCTGTGTAAGTGT 661

OTHER INFORMATION: RECEPTOR
US-08-357-533A-1

Query Match 12.4%; Score 316.8; DB 2; Length 2625;
Best Local Similarity 60.9%; Pred. No. 2.1e-77;
Matches 570; Conservative 1; Mismatches 353; Indels 12; Gaps 3;

QY 588 TTCTACTCAGACCCAGGACCCACCCACCTTCCCTTACTAGGTTGAAGCCATTGC 647
Db 926 TACCACGCGAGGCTGAGATACAACTCATGCCATTGCTCAGCAACCGTCCCATTC 985
QY 648 AGCTGTTAGAGTGAAGGGAAGATTGGTTGTTCTGTAAGAGCCAGTTGCTCA 707
Db 986 AGCTGCTGACAGAGCCGAGTGTAGATTGGTGTGTGGCAAGCAAGCTCAACA 1045
QY 708 ATGATATGTGGCTGTAATATTTTCAATACAGCAACAGTCTCTGCGCAAGTAAAT 767
Db 1046 ATCAGGATGTGGCGTCAAGATCTTTCGATGCGAGGAAAGAAATCGTGACCAAGC 1105
QY 768 ATGAAGTCTATAGTCTACCTGGAAATGAAGATGAGACATACAGTTCAATTTGTCAG 827
Db 1106 AGATATCTACAGCTCGCGCATGCGCATCGAATCTCTGATTTCTGGCGTTG 1165
QY 828 AGAAAGAGGACAGTGTGGATGTGACCTGTGGCTTAATCAGCAGATTTATGAAGG 887
Db 1166 AGAA-----GCATATGGAAGCGGATATTTGGCTGATATCCACTACGACATAACG 1219
QY 888 GCTCAGTGTGAGCTTTCTTAAGCTAATGTGTCTCTGGAATCATCTTTGTCATATTG 947
Db 1220 GATCAGTGTGAGCTTCTTAATGCGACAGATCTATGCGCAGATTTGTCGATGTCG 1279
QY 948 CAGAAACATGCTAGAGATTTGCAATTTATACATGAGGATATACCTGGCTTAAA---AG 1004
Db 1280 CTGAGTCCATGCGCAATGAGCTGGCATCTGCAAGGAGATCCCGGCATCAAGACCG 1339
QY 1005 ATGCGCACAGCTGCAATCTCAGAGGACATCAAAATGAAATGCTGTTGAAA 1064
Db 1340 ATGGCTTAAACCATGATAGCTACCGAGCTTCAAGTCTAAGACGTTACTGCTTAA 1399
QY 1065 ACAATCTGACAGCTTGCATTGCTGACTTTGGGTTGGCTTAAAGTTGAGGCTTGGCAAGT 1124
Db 1400 GCGATCTGAGGCTGTATAGCTGACTTTGGTTGGCCATGATATTCAGCCAGGCAAGC 1459
QY 1125 CTGAGGTGACACCCATGCGCAGGTGTGTACCGGAGGTATATGGCTCCAGAGTTGG 1184
Db 1460 CTTGCGCGGATACACAGGCTCAAGTAGGCACTCGAGCTTACATGGCCCGCAGAGTCTTG 1519
QY 1185 AGGTTGCTATAAACTTCCAAAGGACGCACTTTCTGAGGATAGATATGTACGCCATGGAT 1244
Db 1520 AGGTTGCCATCAATTTCAATAGAGAGCTTTCTAGCATAGAGCTTACGCATGCGGCC 1579
QY 1245 TAGTCTATGGGAATTTGGCTTCTGTTGCACTGCTGAGATGAGACCGCTAGATGATACA 1304
Db 1580 TAGTCTCTGGGAATTTGGTGTACAGGTG---TGACTTTGCGGACCGCTCGGTGAGTTCC 1636
QY 1305 TGTACCATTTGAGGAAGAAATTTGGCCGCGCATCTCTTGAAGATATGAGGAGTTG 1364
Db 1637 AGCTGCTTTTGAAGCGGAGCTGGCTGAGGCTGAGGCTGCTGAGACGAGTTTCAAGAGTG 1696
QY 1365 TTGTGCATAAAAAGAGGCTTGTTTTAAAGATTTATGGCAAGAAATGAGGAGTATCG 1424
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QY 1425 CAATGCTCTGTGAACGATAGAGATTTTGGATCATGATGAGAGGCTGATATCAG 1484
Db 1757 ATGTATTTCTGCGACAAATGAGAGTGTGAGATCAGACGCTGAGGCTGCTTGTAGCT 1816
QY 1485 CTGAGTGTGTAGGTAAGAAATTTACTCAGATGAAA 1520
Db 1817 CTTCGTGTGTATGGAAGCGCTTTTGGCAGCTAAACA 1852

RESULT 10

US-08-459-009-1
; Sequence 1, Application US/08459009
; Patent No. 5861479
; GENERAL INFORMATION:
; APPLICANT: JIN, DONALD F
; APPLICANT: OPPERMAN, HERMANN
; APPLICANT: KUBERASAMPATH, THANGAVEL
; APPLICANT: SMART, JOHN E
; TITLE OF INVENTION: NOVEL MORPHOGEN CELL SURFACE RECEPTOR
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PATENT ADMINISTRATOR, CREATIVE BIOMOLECULES,
; STREET: 45 SOUTH STREET
; CITY: HOPKINTON
; STATE: MA
; COUNTRY: USA
; ZIP: 01748
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/459,009
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/357,533
; FILING DATE: 16-DEC-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: KELLY, ROBIN D
; REGISTRATION NUMBER: 34,637
; REFERENCE/DOCKET NUMBER: CRP-073FW
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (508)-435-9001
; TELEFAX: (508)-435-0992
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2625 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 379..1929
; OTHER INFORMATION: /product= "DROSOPHILA MORPHOGEN"
; OTHER INFORMATION: RECEPTOR"
US-08-459-009-1

Query Match 12.4%; Score 316.8; DB 2; Length 2625;
Best Local Similarity 60.9%; Pred. No. 2.1e-77;
Matches 570; Conservative 1; Mismatches 353; Indels 12; Gaps 3;

QY 588 TTCTACTCAGACCCAGGACCCACCCACCTTCCCTTACTAGGTTGAAGCCATTGC 647
Db 926 TACCACGCGAGGCTGAGATACAACTCATGCCATTGCTCAGCAACCGTCCCATTC 985
QY 648 AGCTGTTAGAGTGAAGGGAAGATTGGTTGTTCTGTAAGAGCCAGTTGCTCA 707
Db 986 AGCTGCTGACAGAGCCGAGTGTAGATTGGTGTGTGGCAAGCAAGCTCAACA 1045
QY 708 ATGATATGTGGCTGTAATATTTTCAATACAGCAACAGTCTCTGCGCAAGTAAAT 767
Db 1046 ATCAGGATGTGGCGTCAAGATCTTTCGATGCGAGGAAAGAAATCGTGACCAAGC 1105
QY 768 ATGAAGTCTATAGTCTACCTGGAAATGAAGATGAGACATACAGTTCAATTTGTCAG 827
Db 1106 AGATATCTACAGCTCGCGCATGCGCATCGAATCTCTGATTTCTGGCGTTG 1165
QY 828 AGAAAGAGGACAGTGTGGATGTGACCTGTGGCTTAAATGAAATGCTGATGAAAAG 887

1166	DB	AGAA-----GCACATGACACAGCCGGGAATATTGGCTGATATCCACTCACGACATAACG	1219
888	QY	GCTCACTGTCAGACTTTCTTTAAGCTAATGTGTCTCTTGGAAATCAACTTTGTCTATATTG	947
1220	DB	GATCATATTCGCACTACCTCAAAATCGCACAGCATCTCATGGCCAGAGATTTGTGCGGCATCG	1279
948	QY	CAGAAACCATGGCTTAGAGGATTCGCATATTTACATGAGGATATACCTGGCTTAAA--AG	1004
1280	DB	CTGAGTCCATGGCCCATGGATGGCCATCTGCACGAGAGATCCCGGCATCAAGACCG	1339
1005	QY	ATGGCCACACAGCCTGCAATCTCTCACAGGACACATCAAAAGTAAAAATGTCTGTTGAAAA	1064
1340	DB	ATGGGCTAAACCATCGATAGCTCACCGAGACTCAAGTCTCAAGAACGTACTGCTTAAAGA	1399
1065	QY	ACAATCTGACAGCTTGCATTGCTGACTTTGGGTTGGCCTTAAAGTTTCGAGGCTGGCAAGT	1124
1400	DB	GCGATCTGACGGCCTGTATAGCTGACTTGTGTTGGCCATGATATTCACGCCAGGCAAGC	1459
1125	QY	CTGCAGGTGACCCCATGGCAGGTTGGTACCCGGAGGTATATGGCTCCAGAGGTTGTGG	1184
1460	DB	CCTGGCGGATACACACGGTCAAGTAGGCACTCGACGTTACATGGCCCCAGAGGTGCTTG	1519
1185	QY	AGGGTGCTATAAACTTCCAAAGGAGCACTTCTTGAGGATAGATATGTACGCCATCGGAT	1244
1520	DB	AGGGTGCCATCAATTTCAATAGAGACGCTTTCTTAAGCATAGACGCTACAGCATGGCGC	1579
1245	QY	TAGTCTCATGGGAAATGGCTTCTCGTTGCACTGCTGCAGATGCACCGTAGATGAGTACA	1304
1580	DB	TAGTCTCTGGGAAATGGTGTCAAGGTG---TGACITTCGCGACCCGTCGGTGAATTC	1636
1305	QY	TGTTACATTTGAGGAGAAATTTGGCCAGCATCATCTCTTTGAAGATATGACGAGAGTTG	1364
1637	DB	AGCTGCTTTTGGGCGGAGCTGGGCGCTGAGGCGCTGGTGGACGAAGTTTCAGGAGAGTG	1696
1365	QY	TTGTGCTAAAAAAAAGAGCCCTGTTTAAAGAGATTATTGGCCAGAAACATGCAGGAAATGG	1424
1697	DB	TGCTAATGAAGAGCTGGCGCCTCGTTTGCTCAACTCTGGCGCGGCCATCCGGGACTTA	1756
1425	QY	CAATGCTCTGTGAAACGATAGAGAAATGTTGGATCATGATGCAGAGCAGCGATTATCAG	1484
1757	DB	ATGTATTCTGCGACAAATGGAGAGGTCTGGGATCATCAGACGCTGAGGCTCGTCTAGCT	1816
1485	QY	CTGGATGTCTAGGTGAAGAAATTTACTCAGATGCAAA	1520
1817	DB	CTTCGTGTGTAAATGGAACGCTTTTGGCAGGCTAAACA	1852

RESULT 11

US-08-459-951-1
: Sequence 1. Application US/08459951

;; FALCILL NO. 6093347
;; GENERAL INFORMATION:

GENERAL INFORMATION:
APPLICANT: JIN, DONALD F

APPLICANT: OPFERMANN, HERMANN

APPLICANT: KUBERASAMPATH, THANGAVEL

APPLICANT: SMART, JOHN E

TITLE OF INVENTION: NOVEL MORPHOGEN CELL SURFACE RECEPTOR

NUMBER OF SEQUENCES: 12

CORRESPONDENCE ADDRESS:

ADDRESSEE: PATENT ADMINISTRATOR, CREATIVE BIOMOLECULES, INC.

ADDRESSEE: INC
STREET. 45 SOUTH STREET

STREET: 45 SOUTH STREET
CITY: HOPKINTON

CITY: HOPKINTON
STATE: MASTATE: MA
COUNTRY: USACOUNTRY: USA
ZIP: 01748

COMPUTER READING

MEDIUM TYPE: Floppy

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS

; SOFTWARE: PatentIn Release #1.0;

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; CURRENT APPLICATION DATA:

```

APPLICATION NUMBER: US

Matches 441; Conservative 0; Mismatches 363; Indels 15; Gaps 4;

QY 709 TGAATATGTGGCTGTCAAAATATTTTCCAAATACAGGACAAACAGTCTCTGGCAGAAATGAATA 768
DB 1148 TGAGACAGTGGCAGTCAAGATCTTCCCTATGAGGATGCTCTCTTGGAGACAGAGAA 1207
QY 769 TGAAGTCTATAGTCTACCTGGAAATGAGCATGAGAACATACACTACAGTTCATGCTGCAGA 828
DB 1208 GGACATCTTCTCAGACATCAATCTGAAGCATGAGAACATACACTCCAGTCTCTGACGGCTGA 1267
QY 829 GAAAAGAGGACCAAGTGTGATGTGGACCTGTGCTTAATCACAGCATTTTCAATGAAAGG 888
DB 1268 GGAGCGGAGAGCGAGTGTGGGAAACAACTACTGGCTGATCAGCGCTTCCAGCCCAAGG 1327
QY 889 CTCAGTGTGAGATCTTCTTAAGGCTAATGTGCTCTCTTGAATPACCTTTGTGATATTC 948
DB 1328 CAACCTACAGGAGTACCTGACGGGATGTGTATCAGCTGGGAGACCTGCGCAAGCTGG 1387
QY 949 AGAAACCATGGCTAGAGATTTGCAATATTTACATGAGGATATACCTGGCTTAAAGATG 1008
DB 1388 CAGCTCTCTGCGCGGGAGTGTCTCACCTCCAGTGTACACT---CCATGTGGAG 1444
QY 1009 CCAGAGCTGTGATCTCTCCAGGACATCAAGAGTAAATGTGCTGTGAAACAA 1068
DB 1445 GCCCAAGATGCCATCTGTCAGGACCTCAAGAGCTCCAAATATCTCTGTAAGAACGA 1504
QY 1069 TCTGACAGCTTGCATCTGCTGACCTTGGGTTGGCTTAAAGTTCGAGGCTGGCAAGTCTGC 1128
DB 1505 CTTACCTGTCTGTGATCTTGGCTTCCCTGGCTGTGGACCTTACTCTGTCTGT 1564
QY 1129 AGGTGAC-----ACCCATGGGAGGTTGGTACCGAGGATATGGCTCCAGAGGTGT 1182
DB 1565 GGATGACCTGGCTAACAGTGGGAGGTTGGAACTGCAAGATACATGGCTCCAGAGTCTCT 1624
QY 1183 GAGGCTGTATTAATCTCAAA---GGAGCGATTTCTGAGGATAGATATGTACCCAT 1239
DB 1625 AGAATCCAGATGAATTTGAGAAATGTGAGTCTTCAAGCAGACCGATGTCTACTCCAT 1684
QY 1240 GGATTTAGTCTTATGGGAATTTGGCTTCTCTGCTTCACTGTGTCAGATGAGACCGGTAGATCA 1299
DB 1685 GGCTCTGTGTCTCTGGGAATGACATCTCGTG---TAATGAGTGGGAGAGTAAAGA 1741
QY 1300 GTACATGTTACATTTTGGAGAAATTTGGCAGGATCCATCTCTTGAAGATATGACAGA 1359
DB 1742 TTATGAGCTTCAATTTGGTTTCAAGGTTGGGAGCAGCCCTGTGTGCGAAGCATGAAGA 1801
QY 1360 AGTTGTGTGTCATAAAAAAGAGGCTGTGTTTAAAGAGATTTATGGCAGAAACATGCAGG 1419
DB 1802 CAAGTGTGTGAGATCGAGGCGACAGAAATCCAGCTTCTGGCTTCAACCCAGG 1861
QY 1420 ATGGCAATGCTCTGTGAACAGATAGAAATTTGGGATTCATGATGCGAAGCCAGGTT 1479
DB 1862 CATCCAGATGTTGTGAGACGTTGACTGAGTGTGGGACCAAGCCAGAGGCGCGTCT 1921
QY 1480 ATCAGCTGGATGTAGGTGAAGATTTACTCAGATGCA 1518
DB 1922 CACAGCCAGTGTGTGAGAGACGCTTCACTGAGCTGGA 1960

RESULT 14

US-08-451-946B-7
; Sequence 7, Application US/08451946B
; Patent No. 6001969
; GENERAL INFORMATION:
; APPLICANT: Lin, Herbert Y.
; APPLICANT: Wang, Xiao-Fan
; APPLICANT: Weinberg, Robert A.
; APPLICANT: Lodish, Harvey F.
; TITLE OF INVENTION: TGF-Beta Type Receptor cDNAs Encoded
; TITLE OF INVENTION: Products and Uses Thereof
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.

STREET: Two Militia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02173
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/451,946B
FILING DATE: 26-MAY-1996
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/311,703
FILING DATE: 23-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/786,063
FILING DATE: 31-OCT-1991
ATTORNEY/AGENT INFORMATION:
NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: WHI91-09V
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-861-6240
TELEFAX: 617-861-9540
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 2090 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 336..2038
US-08-451-946B-7

Query Match 6.6%; Score 168.2; DB 3; Length 2090;

Best Local Similarity 53.8%; Pred. No. 2.1e-36;

Matches 441; Conservative 0; Mismatches 363; Indels 15; Gaps 4;

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 26, 2004, 14:34:35 ; Search time 1075 Seconds
(without alignments)
10922.169 Million cell updates/sec

Title: US-09-742-684A-15

Perfect score: 2563
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Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 3017426 seqs, 2290544650 residues

Total number of hits satisfying chosen parameters: 6034852

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	1903	74.2	2382	15	US-10-101-510-140
4	678.2	26.5	2335	9	US-09-742-684-3
5	403.6	15.7	452	9	US-09-878-178-688
6	403.6	15.7	452	14	US-10-046-935-688
7	403.6	15.7	452	15	US-10-146-502-688
8	316.8	12.4	2637	14	US-10-108-605-156
9	316.8	12.4	2637	14	US-10-108-605-78
10	238.2	9.3	535	10	US-09-918-995-30472
11	233	9.1	517	10	US-09-918-995-32124
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17	168.2	6.6	2090	17	US-10-641-643-1325	Sequence 1325, Ap
18	168.2	6.6	2094	17	US-10-432-989-4	Sequence 4, Appl
19	168.2	6.6	3206	15	US-10-101-510-438	Sequence 438, App
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21	168.2	6.6	5759	13	US-09-888-361-3	Sequence 3, Appl
22	168.2	6.6	5759	17	US-10-450-826-138	Sequence 138, App
23	168.2	6.6	5759	17	US-10-648-593-64	Sequence 64, Appl
24	168.2	6.6	5821	14	US-10-071-766-52	Sequence 52, Appl
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36	147.8	5.8	2032	13	US-10-058-270A-5	Sequence 5, Appl
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41	147.8	5.8	2032	15	US-10-139-814-13	Sequence 13, Appl
42	147.8	5.8	2032	16	US-10-295-027-67	Sequence 67, Appl
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45	147.8	5.8	2032	16	US-10-295-027-880	Sequence 880, App

ALIGNMENTS

RESULT 1

US-09-742-684-1
; Sequence 1, Application US/09742684
; Patent No. US20010039036A1
; GENERAL INFORMATION:
; APPLICANT: Mathews, Lawrence S.
; Vale, Wylie W.
; Tsuchida, Kunihiro
; TITLE OF INVENTION: CLONING AND RECOMBINANT PRODUCTION OF
; RECEPTOR(S) OF THE ACTIVIN/TGF-BETA SUPERFAMILY
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
; STREET: 444 South Flower Street, Suite 2000
; CITY: Los Angeles
; STATE: CA
; COUNTRY: USA
; ZIP: 90071

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION NUMBER: US/09/742,684

FILING DATE: 19-Dec-2000

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/476,123

FILING DATE: <Unknown>

APPLICATION NUMBER: US 07/300,584

FILING DATE: 02-SEP-1994

APPLICATION NUMBER: US 07/880,220

FILING DATE: 08-MAY-1992

APPLICATION NUMBER: US 07/773,229

FILING DATE: 09-OCT-1991

APPLICATION NUMBER: US 07/698,709

FILING DATE: 10-MAY-1991

ATTORNEY/AGENT INFORMATION:

NAME: Reiter, Stephen E.

REGISTRATION NUMBER: 31,192

REFERENCE/DOCKET NUMBER: P41 9927

TELECOMMUNICATION INFORMATION:

TELEPHONE: 619-546-4737

TELEFAX: 619-546-9392

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 2563 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 71..1609

SEQUENCE DESCRIPTION: SEQ ID NO: 1:

US-09-742-684-1

Query Match 99.7%; Score 2556.4; DB 9; Length 2563;
 Best Local Similarity 99.8%; Pred. No. 0;
 Matches 2557; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

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RESULT 4

US-09-742-684-3

; Sequence 3, Application US/09742684

; Patent No. US20010039036A1

; GENERAL INFORMATION:

APPLICANT: Mathews, Lawrence S.
Vale, Wylie W.
Tsuchida, Kunihiko
TITLE OF INVENTION: CLONING AND RECOMBINANT PRODUCTION OF
RECEPTOR (S) OF THE ACTIVIN/TGF-BETA SUPERFAMILY
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSER: Pretty, Schroeder, Brueggemann & Clark
STREET: 444 South Flower Street, Suite 2000
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA: US/09/742,684
Filing Date: 19-Dec-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/476,123
Filing Date: <Unknown>
APPLICATION NUMBER: US 08/300,584
Filing Date: 02-SEP-1994
APPLICATION NUMBER: US 07/880,220
Filing Date: 08-MAY-1992
APPLICATION NUMBER: US 07/773,229
Filing Date: 09-OCT-1991
APPLICATION NUMBER: US 07/698,709
Filing Date: 10-MAY-1991
ATTORNEY/AGENT INFORMATION:
NAME: Reiter, Stephen E.
REGISTRATION NUMBER: 31,192
REFERENCE/DOCKET NUMBER: P41 9927
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-546-4737
TELEFAX: 619-546-9392
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2335 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
IMMEDIATE SOURCE:
CLONE: XACTR
FEATURE:
NAME/KEY: CDS
LOCATION: 468..1997
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-742-684-3
Query Match 26.5%; Score 678.2; DB 9; Length 2335;
Best Local Similarity 65.6%; Pred. No. 7.1e-170;
Matches 1037; Conservative 2; Mismatches 526; Indels 15; Gaps 3;
QY 62 CTCGGGAATGGAGCTGCTGGAGATGAGAACTCAGGAGTGCTTTCTTATCTCTTGCTCT 121
DB 459 CCAGGAGATGGGGGGCTGTAGCGCTGACTTTCTACTTCTTCTGCACTTTCGCG 518
QY 122 TCAGGTGCTATCTTGGCAGATCAGAACTCAGGAGTGCTTTCTTTTAATGCTAATGG 181
DB 519 GCAGGCTCAGGACCAAGATGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 578
QY 182 GAAAGCAGACAGACAGACAGCTGGTGTGACCTTGTGATGATGATGATGATGATGAT 241
DB 579 GAACGTGAG 638
QY 242 CGACATGTTTGTCTACCTCGGAGAGATATTTCTGGTTCCATTGAAATAGTGAAGCA 301

DB 639 CTCACATGTTTACCGCTCTTTGGAGGACAAATTCGGCTTTCATAGAGCTGGTGAAGAAAGGA 698
QY 302 TGTGGCTGGATGATATCAACTGCTATGACAGGAGCTGATTTGTTGNGAAAAAAGACAGC 361
DB 699 TGTGGCTGGATGATCACTTCACTTATGACAGAGAGAGAGAGAGAGAGAGAGAGAG 758
QY 362 CTTGAAGTGATCTTTGTTGCTGTGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 421
DB 759 CCCAAGTCTTTTCTGCTGTGGAGGAGAACTACTGCAACAAGAAATTTACTCATTTG 818
QY 422 CCGGAGATGGAAGTCACAGAGCCCACTTCAATCTGTTACACCGAAGCCCACTTATAC 481
DB 819 CTTGAAGTCGAACAATTTGATCCGAGCCCA-----GCCGTGAGCTCCCTACTG 869
QY 482 AACATTCTGCTGATTTCTTGTGATACCACTAAATGTAATGAGGAAATGTCATTTGTGCA 541
DB 870 AACATTCTGATCTATTCCTGCTTCCAAATGTTGCTCTTTCCATGGCAATTTCTCTGCG 929
QY 542 TTTGGGTGTACAGACATCAAGATGGCTCTACCTCTGCTGCTGCTGCTGCTGCTGCTG 601
DB 930 TTTGATGATACCTGTCGGAAGCCTCCCTACGGGAGATGTA---GAGATCAATGAGGAC 986
QY 602 CCAGGACCACTCCCACTTCCCAATTAAGGTTGAGGCCAATTCAGCTCTTTTGAAGTG 661
DB 987 CCGGTCTGCCCCCTCCATCTCTCTGCTGGGCTGGAAGCCGCTGCACTTCTGAGATA 1046
QY 662 AAGCAAGGGAGAGATTTGTTGCTGGAAGCCAGTTGCTCAATGATATGCTGCT 721
DB 1047 AAGCGGAGAGCCCTTTGCTGCTGGAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1106
QY 722 GTCAAAATATTTCCAAATACAGGACAAACAGTCCTGGCAGAGATGAATATGAAGTCT 781
DB 1107 GTGAAATCTTCCCGTGCAGGATAGCAGTCTGTCGAGCTGTGAGAAAGAGATCTTACC 1166
QY 782 CTACCTGGAATGAGAGATGAGAACATACAGTTCATGCTGTCAGAGAGAGAGAGAGC 841
DB 1167 ACGCGGGCATGAAACATGAAACCTATTGGAGTTTCATTTGCGGTGAGAGAGAGAGAG 1226
QY 842 AGTGTGAGTGTGGACCTGTGGCTTAATCACAGCATTTTCATGAAAAGGCTCACTGTGAC 901
DB 1227 AACCTGAGATGGAGCTGTGGCTCATCACTGCTTTCATGAGGTTCTCTGACGAC 1286
QY 902 TTTCTTAAGGCTAATGTGCTCTTTGGAATCACTTTGCTGATATGAGAGAGAGAGAGAG 961
DB 1287 TACCTGAAAGGAGAACTTGGTGGAGTGAATGAGTGTGCTACATAACAGAGAGAGAG 1346
QY 962 AGAGGATGGCATATTTACATGAGATATACCTGCTTAAAGGCTTAAAGGCTTAAAGG 1018
DB 1347 CGTGGCTGGCTACTTACATGAGAGATGTCGCCGCTGTAAGGCTGAGAGAGAGAGAG 1406
QY 1019 GCAATCTCTCAGAGGACATCAAAAGTAAATGCTGCTTTGAAAAGAGAGAGAGAGAGAG 1078
DB 1407 GCAATGCTCAGAGAGATTTTAAAGTAAAGATGTTGCTTAAAGAGAGAGAGAGAGAG 1466
QY 1079 TGCATTTGCTGACTTTGGGCTTAAAGTTCCAGGCTGCAAGTCTGCAAGTGTGACACC 1138
DB 1467 ATATTAGCAGACTTTCGGCTGCGCTGCGTTCGATTTGAGCTGGAAGAGAGAGAGAG 1526
QY 1139 CATGGGCAAGTGTGTACCCGAGAGTATATGCTCCAGAGGTTGTTGGAGGGTGTCTATAAC 1198
DB 1527 CACGGGCAAGTGTGGCAGCAGAGGTATATGCTCTGAGGTTCTAGAGGGAGAGAGAGAG 1586
QY 1199 TTCCAAAGGAGAGAGATTTCTGAGAGATGATATGACCGATGGGATAGTCTTATGGGAA 1258
DB 1587 TTTCAAGCAGAGATTTCTTCTCAGGATGATATGATGCTCATGGGAGAGAGAGAGAGAG 1646
QY 1259 TTGGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1318
DB 1647 ATAGTATCCCGATGTACAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1706
QY 1319 GAAGAAATGGCAGAGATCTCTCTTCAAGATATGAGGAGAGAGAGAGAGAGAGAGAGAG 1378
DB 1707 GAAGAGATTTGGGCAACATCTTCTCTAGAGATCTGCAAGAGAGAGAGAGAGAGAGAG 1766

QY 1379 AAGAGGCTGTATTAAGAGATTATTGGCAGAAATCATCAGGAATGGCAATGCTCTGTGAA 1438
Db 1767 ATAGCCCTGTATTCAAGACCACTGCTGAACACCCCTGGTCTGGCCCACTGTGCTC 1826
QY 1439 ACGATAGAAGATTTGGGATCARGATGCGAGAGCCAGGTTATCAGCTGGATGTGAGGT 1498
Db 1827 ACCATTGAAGATCTGGGACCATGATGCGGAGCAGCGCTTTGGCGAGGCTGCGTAGAG 1886
QY 1499 GAAAGAAATTTACTCAGATGCAAGACTAACAAATATCATTACTACAGAGGACATTTGAACA 1558
Db 1887 GAGGTAATTTCCAAATCCGTAATCAGTGAACGCACTACCTCGGACTGCCCTTGATCC 1946
QY 1559 GTGTCACAAATGCTGACAAATTTGACTTTCTCCCAAAGAACTAGTCTATGATGCTGG 1618
Db 1947 ATTGTTACATCTGTCACAATGTGCACTTGGCGGCCAAAGAGTCCAGTATCTGAGGTTTC 2006
QY 1619 CACGCTGTGTACACACTGAG 1638
Db 2007 TTTGGTCTTCCAGACTCAG 2026

RESULT 5

US-09-878-178-688
; Sequence 688, Application US/09878178
; Patent No. US2002017752A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secretist, Heather
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.527
; CURRENT APPLICATION NUMBER: US/09/878,178
; CURRENT FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 2237
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 688
; LENGTH: 452
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-878-178-688

Query Match 15.7%; Score 403.6; DB 9; Length 452;
Best Local Similarity 93.1%; Pred. No. 5.6e-97;
Matches 421; Conservative 1; Mismatches 30; Indels 0; Gaps 0;
QY 583 ACTTGTTCCTACTCAAGACCCAGGACCCACCCCTTCCCAATTTACTAGGTTGAAGCC 642
Db 1 ACTTGTTCCTCAACTCAAGACCCAGGACCCACCCCTTCTCCATTTACTAGGTTGAAGCC 60
QY 643 ATTGCAGCTGTAGAGTGAAGCAAGGGAAGATTGGTTGTCTCTGGAAGCCCAAGTT 702
Db 61 ACTGCAGTTATTAGAAAGTGAAGCAAGGGAAGATTGGTTGTCTCTGGAAGCCCAAGTT 120
QY 703 GCTCAATGAATATGTGCTGTCAAAATATTTCCAATACAGACAAACAGTCTCTGGCAGAA 762
Db 121 GCTTAACGAATATGTGCTGTCAAAATATTTCCAATACAGACAAACAGTCTCTGGCAGAA 180
QY 763 TGAATATGAAGTCTATAGTCTACCTGGAATGAAGCAATGAGCACTACTACAGTTCAATGG 822
Db 181 TGAATACGAAGTCTACAGTTTGCCTGGAATGAAGCAATGAGCAATATTACAGTTCAATGG 240
QY 823 TGCAGAGAAAGAGGACCCAGTGTGGATGTGGACCTGTGGCTAATACAGCAATTTTCATGA 882
Db 241 TGCAGAGAAAGAGGACCCAGTGTGGATGTGGACCTGTGGCTAATACAGCAATTTTCATGA 300
QY 883 AAAGGCTCACTGTACAGCTTTCTTAAGCTAATGTGGTCTCTTGGCAATCARTTTGTCA 942
Db 301 AAAGGTTTCACTATACAGCTTTCTTAAGCTAATGTGGTCTCTTGGCAATCARTTTGTCA 360
QY 943 TATTGCAGAAACCATGCTAGAGATTGGCATATTTACATGAGGATATACCTTGGCTTAAA 1002

RESULT 7

US-10-146-502-688
; Sequence 688, Application US/10146502
; Publication No. US20030069180A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu

Db 361 TATTGCAGAAACCATGCTAGAGATTGGCATATTTACATGAGGATATACCTGGCCTAAA 420
QY 1003 AGATGGCCCAAGCCCTGCAATCTCTCACAGGG 1034
Db 421 AGATGGCCCAAGCCCTGCAATCTCTCACAGGG 452
RESULT 6
US-10-046-935-688
; Sequence 688, Application US/10046935
; Publication No. US20020156011A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secretist, Heather
; APPLICANT: Wang, Aijun
; APPLICANT: Stoik, John A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.527C1
; CURRENT APPLICATION NUMBER: US/10/046,935
; CURRENT FILING DATE: 2002-01-15
; NUMBER OF SEQ ID NOS: 2239
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 688
; LENGTH: 452
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-046-935-688
Query Match 15.7%; Score 403.6; DB 14; Length 452;
Best Local Similarity 93.1%; Pred. No. 5.6e-97;
Matches 421; Conservative 1; Mismatches 30; Indels 0; Gaps 0;
QY 583 ACTTGTTCCTACTCAAGACCCAGGACCCACCCCTTCCCAATTTACTAGGTTGAAGCC 642
Db 1 ACTTGTTCCTCAACTCAAGACCCAGGACCCACCCCTTCTCCATTTACTAGGTTGAAGCC 60
QY 643 ATTGCAGCTGTAGAGTGAAGCAAGGGAAGATTGGTTGTCTCTGGAAGCCCAAGTT 702
Db 61 ACTGCAGTTATTAGAAAGTGAAGCAAGGGAAGATTGGTTGTCTCTGGAAGCCCAAGTT 120
QY 703 GCTCAATGAATATGTGCTGTCAAAATATTTCCAATACAGGACAAACAGTCTCTGGCAGAA 762
Db 121 GCTTAACGAATATGTGCTGTCAAAATATTTCCAATACAGGACAAACAGTCTCTGGCAGAA 180
QY 763 TGAATATGAAGTCTATAGTCTACCTGGAATGAAGCAATGAGCACTACTACAGTTCAATGG 822
Db 181 TGAATACGAAGTCTACAGTTTGCCTGGAATGAAGCAATGAGCAATATTACAGTTCAATGG 240
QY 823 TGCAGAGAAAGAGGACCCAGTGTGGATGTGGACCTGTGGCTAATACAGCAATTTTCATGA 882
Db 241 TGCAGAGAAAGAGGACCCAGTGTGGATGTGGACCTGTGGCTAATACAGCAATTTTCATGA 300
QY 883 AAAGGCTCACTGTACAGCTTTCTTAAGCTAATGTGGTCTCTTGGCAATCARTTTGTCA 942
Db 301 AAAGGTTTCACTATACAGCTTTCTTAAGCTAATGTGGTCTCTTGGCAATCARTTTGTCA 360
QY 943 TATTGCAGAAACCATGCTAGAGATTGGCATATTTACATGAGGATATACCTTGGCTTAAA 1002
Db 361 TATTGCAGAAACCATGCTAGAGATTGGCATATTTACATGAGGATATACCTTGGCTTAAA 420
QY 1003 AGATGGCCCAAGCCCTGCAATCTCTCACAGGG 1034
Db 421 AGATGGCCCAAGCCCTGCAATCTCTCACAGGG 452

APPLICANT: Harlocker, Susan L.
APPLICANT: Sectist, Heather
APPLICANT: Wang, Aijun
APPLICANT: Stolk, John A.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
FILE REFERENCE: 210121.527C2
CURRENT APPLICATION NUMBER: US/10/146,502
CURRENT FILING DATE: 2002-05-14
NUMBER OF SEQ ID NOS: 2241
SOFTWARE: PastSeq for Windows Version 4.0
SEQ ID NO 688
LENGTH: 452
TYPE: DNA
ORGANISM: Homo sapiens
US-10-146-502-688

Query Match 15.7%; Score 403.6; DB 15; Length 452;
Best Local Similarity 93.1%; Pred. No. 5.6e-97;
Matches 421; Conservative 1; Mismatches 30; Indels 0; Gaps 0;
QY 583 ACTTGTTCTACTCAAGACCCAGGACCCACCCACCTTCCCAATTACTAGGTTGAAGCC 642
Db 1 ACTTGTTCAACTCAAGACCCAGGACCCACCCACCTTCCCAATTACTAGGTTGAAGCC 60
QY 643 ATTGCAGCTGTTAGAAAGCAAGGGAAGATTGGTTGTCTGGAAGCCAGTT 702
Db 61 ACTGCAGTTATTAGAAAGCAAGGGAAGATTGGTTGTCTGGAAGCCAGTT 120
QY 703 GGTCAATGAATATGTTGGTGTCAAAATATTTCCAAATATTCAGAGCAACACATCTCGCGCAAA 762
Db 121 GGTAAAGAAATATGTTGGTGTCAAAATATTTCCAAATATTCAGAGCAACACATCTCGCGCAAA 180
QY 763 TGAATATGAAGTCTATAGTCTACCTGGAAATGAAGCAATGAAACATCTACAGTTCAATGG 822
Db 181 TGAATACGAAGTCTACAGTTTCCCTGGAATGAAGCAATGAAACATCTACAGTTCAATGG 240
QY 823 TCCAGAGAAAGAGCAAGGACAGGTTGGAGTGGACCTGGGCTTAATCAGACATTTTCATGA 882
Db 241 TCCAGAAAGAGCAAGGACAGGTTGGAGTGGATCTTGGCTGATCAGACATTTTCATGA 300
QY 883 AAAGGCTCACTGTCTAGACTTTCTTAAGCTTAATGTGTTCTTGGAAATCACTTTGTCA 942
Db 301 AAAGGTTCACTATCAGACTTTCTTAAGCTTAATGTGTTCTTGGAAATCACTTTGTCA 360
QY 943 TATTCAGAAACCATGGCTAGAGGATGSCATATTTATCAGAGGATATACCTGGCTTAA 1002
Db 361 TATTCAGAAACCATGGCTAGAGGATGSCATATTTATCAGAGGATATACCTGGCTTAA 420
QY 1003 AGATGCCCAACAGCTGTCAATCTCTCACAGG 1034
Db 421 AGATGCCCAACAGCTGTCAATCTCTCACAGG 452

RESULT 8
US-10-108-605-156
Sequence 156, Application US/10108605
Publication No. US20020160934A1
GENERAL INFORMATION:
APPLICANT: Broadus, Julie
APPLICANT: Stam, Lynn
APPLICANT: Bachmann, Jane
APPLICANT: Kamdar, Kim
TITLE OF INVENTION: NUCLEIC ACID SEQUENCES FROM DROSOPHILA MELANOGASTER THAT ENCODE
TITLE OF INVENTION: PROTEINS ESSENTIAL FOR LARVAL VIABILITY AND USES THEREOF
FILE REFERENCE: 31133B
CURRENT APPLICATION NUMBER: US/10/108,605
CURRENT FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: US 09/761,142
PRIOR FILING DATE: 2001-01-16
PRIOR APPLICATION NUMBER: US 60/176,418
PRIOR FILING DATE: 2000-01-14
NUMBER OF SEQ ID NOS: 361

SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 156
LENGTH: 2657
TYPE: DNA
ORGANISM: Drosophila melanogaster
US-10-108-605-156

Query Match 12.4%; Score 316.8; DB 14; Length 2657;
Best Local Similarity 60.9%; Pred. No. 2.9e-73;
Matches 570; Conservative 1; Mismatches 353; Indels 12; Gaps 3;
QY 588 TTCTTACTCAAGACCCAGGACCCACCCACCTTCCCAATTACTAGGTTGAAGCCATTC 647
Db 949 TACCCAGCAGGCTGAGATAAACAATCATGCCATTCCTCAGCAACCCGTCCTCCATTC 1008
QY 648 AGCTTTAGAAAGTGAAGCAAGGGAAGATTGGTTGTCTGGAAGCCAGTTGTCTCA 707
Db 1009 AGCTGTGGAACAGAGCCAGTGTGATTCGTTGTGTGTCAGCAAGCTCAACA 1068
QY 708 ATGAATATGTGCTGCAAAATATTTCCAAATACAGGCAAAACAGTCTCTGGCAGATGAAT 767
Db 1069 ATCAGGATGTGGCGTCAAGATCTTTCGCATGCAAGGAAAGAAATCGTGGACCGAGC 1128
QY 768 ATGAAGTCTATAGTCTACCTGGAATGAAGCATGAGACATCTACAGTTCAATGTGTGAG 827
Db 1129 ACATATCTACAGCTGGCGCATGGCCATCCGACATCTCTGCAATTCCTGGGCTTG 1188
QY 828 AGAAAGAGGACCAAGTGTGATGTGACCTGTGGCTAATCAGACATTTTCATGAAGG 887
Db 1189 AGAA-----GCACATGGAACAGCCGGAATATTTGGCTGATATCCACCTACCGACATACG 1242
QY 888 GCTCAGTCTCAGACTTTCTTAAGGCTAATGTGTCTCTTGAATCACTTTGTCTATATTG 947
Db 1243 GATCATATGCGACTACTCTCAATCGCACAGCATCTCATGSCAGAGTTGTGCGCCATCG 1302
QY 948 CAGAAACCATGGCTAGAGGATTTGCCATATTTTACATGAGGATATACCTGGCTTAA--AG 1004
Db 1303 CTGAGTCCATGGCCATATGGACTGTCACATCTGCACAGGAGATCCCGCATCAAGACCG 1362
QY 1005 ATGGCCACAGCTGCAATCTCTCAGAGGACATCAAAAGTAAATAATGTGTTGAAAA 1064
Db 1363 ATGGCTTAAACCATCATAGTCTCAGGAGATTTCAAGTCTTAAGACGATCTGCTTAA 1422
QY 1065 ACAATCTCAGACCTTGCATTTCTCAGCTTTGGGCTTAAAGTCTCGAGCTGGCAAGT 1124
Db 1423 GCGATCTGACGCTGTATAGTCTGATTTGGTTTGGCCATGATATTCAGCCAGCAAGC 1482
QY 1125 CTGAGGTGACACCCATGGGAGGTTGTGTACCCGAGGATATGTGCTCCAGAGGTTGG 1184
Db 1483 CTTGCGGCGATACACCGGTCAAGTAGGCACTCGACGTTACATGGCCCCAGAGGTGCTTG 1542
QY 1185 AGGCTGTATAAACTTCCAAAGGAGCGCATTTCTGAGGATAGATATGTAGCCATGGGAT 1244
Db 1543 AGGCTGCTCAATTTCAATAGAGACGCTTTCTTACGCATAGAGCTTACGCATGCGGCC 1602
QY 1245 TAGTCTATGGAATTTGGCTTCTGTTGCACTGTCTGAGATGAGACCGGTAGATGAGTACA 1304
Db 1603 TAGTCTCTGGGAAATGGTGTACAGG--TGACTTTGGCGGACCGCTGGTGGATTC 1659
QY 1305 TGTTCACATTTGAGGAGAAATTTGGCCAGCATCTCTTGAAGATATGAGGAAGTTG 1364
Db 1660 AGTGTCTTTGAGGCGGAGCTGGCTGAGGCGCTGCTGAGCAAGTTTCAGGAGATG 1719
QY 1365 TTGTCATAAAAAAGAGCGCTGTTTAAAGATATTTGGCAGAAACATGACAGGATGG 1424
Db 1720 TGGTAATGAAGAGCTCGGCTCGTTTGTCTCAACTCTGCGCGCGCCATCTCGGAGCTTA 1779
QY 1425 CAATGCTCTGGAACCATAGAAATTTGGGATCATGATGAGAGAGCCAGGTTTATCAG 1484
Db 1780 ATGTAATTCGACACAAATGAGGAGTCTGGGATCAGACGCTGAGGCTCTTCTAGCT 1839
QY 1485 CTGATGTGTAGTGAAGAAATTTACTCAGATGCAAA 1520

Db 1840 CTTGGTGTGTAAATGGAACGCTTTGGCCAGCTAAACA 1875

RESULT 9

US-10-108-605-78
; Sequence 78, Application US/10108605
; Publication No. US20020160934A1
; GENERAL INFORMATION:
; APPLICANT: Broadus, Julie
; APPLICANT: Stam, Lynn
; APPLICANT: Bachmann, Jane
; APPLICANT: Kamdar, Kim
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES FROM DROSOPHILA MELANOGASTER THAT ENCODE
; TITLE OF INVENTION: PROTEINS ESSENTIAL FOR LARVAL VIABILITY AND USES THEREOF
; FILE REFERENCE: 31133B
; CURRENT APPLICATION NUMBER: US/10/108,605
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: US 09/761,142
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/176,418
; PRIOR FILING DATE: 2000-01-14
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 78
; LENGTH: 2687
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-10-108-605-78

Query Match 12.4%; Score 316.8; DB 14; Length 2687;
Best Local Similarity 60.9%; Pred. No. 3e-73;
Matches 570; Conservative 1; Mismatches 353; Indels 12; Gaps 3;
QY 588 TTCCTACTAGACCCAGACACCCACCCACCTCCCTCCCTACTAGGTTGAAGCCATTGC 647
Db 979 TACCCAGCAGGCTGAGATAACAACTCATCGCCATTGCTCAGCAACCGTCCCAATC 1038
QY 648 AGCTGTTAGAGTGAAGCAAGGAGATTTGGTTGTCTCTGGAAGCCAGTTGCTCA 707
Db 1039 AGCTGCTGNAAGAGGSCAGTGGTAGATTGGTATGTTGGCAAGCCAGGCTCAACA 1098
QY 708 ATGAATATGTGGTGTCAAAATATTTCCAAATACAGACAAACAGTCTCTGGCAGATGAAT 767
Db 1099 ATCAGGATGTGGCGTCAAGATCTTTTCGATGAGGAAAGAAATCGTGACCCAGGAGC 1158
QY 768 ATGAATCTATAGTCTACCTGGAATGAAGCATGAGACATACATCACTTTCATTTGGTGCAG 827
Db 1159 ACGATATCTACAGTCTGGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTG 1218
QY 828 AGAAAAGAGGCCACCACTGTGGATGTGGACCTGTGGCTAATCAAGCATTTCAAGAAAG 887
Db 1219 AGAA-----GCACATGGAACAGCCGGAATATTGGCTGATATCCACCTACAGCATAAGC 1272
QY 888 GCTCACTGTACAGCTTTCTTAGGCTAATGTGGTCTCTTGGATCACTTTGTCTATATG 947
Db 1273 GATCACTATGCGACTACCTCAATCGCACAGCATCTATGGCCAGATTTGCGCCGATCG 1332
QY 948 CAGAAACCACTGGCTAGAGGATGGCCATATTATACATGAGGATATACCTGGCTTTAA--AG 1004
Db 1333 CTGAGTCCATGGCCCATGACATGACATCTGACAGGAGATCCCGGCATCAAGACCG 1392
QY 1005 ATGGCCACAGCTGCAATCTCTCAGAGGACATCAAAAGTAAATATGCTGTTGAANA 1064
Db 1393 ATGGGCTAAACCATCGATAGCTCACCAGACTTCAAGTCTAAGAACGTAAGTCTTAAGA 1452
QY 1065 ACAATCTGACAGCTTGCATTTGCTGCTTTGGGTTGGCTTTAAAGTTTCAGGCTGGCAAGT 1124
Db 1453 GCGATCTGACGCTGTATAGCTGACTTTTGGTTGGCCATGATATTCAGCCAGGCAAGC 1512
QY 1125 CTGAGGTGACACCACTGGGCGAGTTGGTATCCCGGAGGTATATGCTCCAGAGGTGTTGG 1184
Db 1513 CTTGGCGGATACACAGGCTAAGTAGGCACTCGACGTTTACATGGCCCGCAGAGGTGCTTG 1572

QY 1185 AGGGTGTATATAAATTCCTCAAGAGGACGCAATTTCTGAGATAGATATGTACGCGCATGGAT 1244
Db 1573 AGGGTGTCCATCAATTTCAATAGAGACGCTTTCTTACGATAGACATCTTACGCGCATGGCC 1632
QY 1245 TAGTCTATGGGAATTTGGCTTCTCTGCTCACTGCTGCGAGATGAGACCCGTAGATAGTACA 1304
Db 1633 TAGTCTCTGGGAATTTGGTGTACAGGTC---TGACTTTGCCGGAACCCGTGCGTGTGAGTTC 1689
QY 1305 TGTACCATTTTGGAGGAATAATTTGCCAGCATCTCTCTTTGAAGATATGCAAGGAATTTG 1364
Db 1690 AGCTGCTTTTGGAGCCGAGCTGGGCGCTGAGGCGCTGCTGACGAAGTTCAAGAGAGTG 1749
QY 1365 TTGTCATATAAAAAAGAGGCTGTTTAAAGATATTTGGCAGAAATATGCGAGAAATGCGAATGG 1424
Db 1750 TGGTAATGAGAGAGCTGCGCCCTCGTTTGTCTCACTCTCTGGCGGCCCATCTCGGACITTA 1809
QY 1425 CAATGCTCTGTGAACAGATAGAGAAATTTGGGATCATGATGCAAGCCAGGTTATCAG 1484
Db 1810 ATGTAATCTGCGACACAATGGAGGATGCTGGATCAGAGCTGAGGCTCGTCTTAGCT 1869
QY 1485 CTGGATGTGTAGGTGAAGAAATTTACTTCTAGATGCAAA 1520
Db 1870 CTTGCTGTGTATGGAACGCTTTGGCGAGCTAAACA 1905

RESULT 10

US-09-918-995-30472
; Sequence 30472, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 30472
; LENGTH: 535
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1) - (535)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-30472

Query Match 9.3%; Score 238.2; DB 10; Length 535;
Best Local Similarity 71.1%; Pred. No. 9.9e-53;
Matches 328; Conservative 1; Mismatches 129; Indels 3; Gaps 1;
QY 784 ACCTGGATGAGCATGAGACATACACTACAGTTTCTTGGTCAGAGAAAGAGGACCCAG 843
Db 75 ACCTGGCATGAGCAGCAGGACCTCTCTACAGTTTCTTGGTCAGAGAGGAGGCTCCA 134
QY 844 TGTGATGTGGACCTGTGGCTTAATCAGACGATTTTCAAGAAAGGCTCTCACTGTACAGCTT 903
Db 135 CCTCGAAGTAGAGCTGTGGCTCATCAGCGCTTCCATGACAAGGCTCTCCCTCACGATTA 194
QY 904 TCTTAAGCTAATGTGGTCTCTTGAATCACTTTGTCTATTTTCAGTAAACCATGCTAG 963
Db 195 CCTCAAGGGGAACATCATCATGGAACGAACTGTGTATGTAGCAAGAGCATGTACAG 254
QY 964 AGGATTTGCATATTTTACATGAGGATATACC---TGGCTTTAAAGATGGCCCAAGCCTGC 1020
Db 255 AGGCTCTCTACCTGTCATGAGATGTCCCTGTGGTGGCGGAGGCGCAAGCCGTC 314
QY 1021 AATCTCTCAGAGGACATCAAAAGTAAATAATGTGCTGTTTGAATAAATCTCAGAGCTTG 1080
Db 315 TATTGCCACAGGGGACTTTAAAGTAAGAAATGTTATTGCTGAGAGCGACCTCACAGCGCT 374

;; TITLE OF INVENTION: CANCER DIAGNOSIS, PROGNOSIS AND THERAPY BASED ON
;; FILE OF INVENTION: MUTATION OF RECEPTOR

;; FILE REFERENCE: 062361.0108
;; CURRENT APPLICATION NUMBER: US/09/878,905
;; CURRENT FILING DATE: 2001-06-13
;; PRIOR APPLICATION NUMBER: 08/417,867
;; PRIOR FILING DATE: 1995-04-07
;; NUMBER OF SEQ ID NOS: 11
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 10
;; LENGTH: 2090
;; TYPE: DNA
;; ORGANISM: human
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: (336)..(2036)
US-09-878-905-10

Query Match 5.6%; Score 168.2; DB 9; Length 2090;
Best Local Similarity 53.8%; Pred. No. 1.3e-33;
Matches 441; Conservative 0; Mismatches 363; Indels 15; Gaps 4;

QY	709	TGAATATGTGGCTGTCTCAAAATATTTCCAAATACAGGACAAACAGTCTCTGGCAGATGAATA	768
DB	1148	TGAGACAGTGGCAGTCAAGATCTTTCCCTATGAGGATGCTCTTTGGGAACACAGAA	1207
QY	769	TGAAGTCTATAGTCTACCTGGATGAGCATGAGACATACATACATCTTATTGGTGCAGA	828
DB	1208	GGACATCTTCTCAGACATCAATCTGAAGCATGAGAACTACTCCAGTTCTCGCGCTGA	1267
QY	829	GAAAGAGGACACAGTGTGGATGTGGACCTGTGGCTAATCAGACATTTTCATGAAAGGG	888
DB	1268	GGAGCGAAGACGGAGTTGGGAAACATATCTGGCTATCAGCGCTTCCAGCCAGGG	1327
QY	889	CTCACTGTACAGCTTTCTTAAAGCTTAAGCTTAAGCTTAAGCTTAAGCTTAAGCTTAAG	948
DB	1328	CAACCTACAGGAGTACCTGACGGGCTATCTCATGCTGGAGGACCTGCGCAAGCTGG	1387
QY	949	AGAAACCATGGCTAGAGGATTCGCATATTTACATGAGGATATACCTGGCTTAAAGATGG	1008
DB	1388	CAGCTCCCTCGCCGGGGGATTTCTCACTCCACAGTGAATCACT---CCATGTGGAG	1444
QY	1009	CCACAGACCTGCAATCTCTCAGAGGACATCAAAAGTAAATATGTCTGTGAAACAA	1068
DB	1445	GCCCAAGATGCCATCTGTGCAAGGACCTCAAGAGCTCCAATATCTCTGTAAGAACGA	1504
QY	1069	TCGACAGCTTGCATCTGCTGACTTTGGTGGCTTAAAGTTTGAGGCTGGCAAGTGC	1128
DB	1505	CCTAACCTGTGCTGTGACTTTGGGCTTTCCCTGCTGGACCTTACTCTGTCTGT	1564
QY	1129	AGGTGAC-----ACCCATGGCAGGTTGGTACCCGGAGGTATATGGCTCCAGAGTGT	1182
DB	1565	GGATGACCTGGCTTAACAGTGGCAGGTGGGAACTGCAAGATACATGGCTCCAGAGTCT	1624
QY	1183	GGAGGTGCTATAAACTTCCAAA---GGGACGATTTCTGAGGATAGATATACGCCAT	1239
DB	1625	AGAATCCAGATGAATTTGGAGATGCTGATGCTTCAAGCAGACCGATGTCTACTTCCAT	1684
QY	1240	GGGATTAAGTCTATGGAAATTTGGCTTCTGTTGCACTGCTGCGATGAGACCCGTAGATGA	1299
DB	1685	GGCTCTGTGCTGTGGAAATGACATCTGCTG---TAATGCACTGGGAGAGTAAAGA	1741
QY	1300	GTACATGTTACCATTTGAGGAAGAAATGGCAGCATTCATCTCTTGAAGATATGAGGA	1359
DB	1742	TTATGAGCCTCCATTTGGTTTCCAGGTGCGGAGCACCCCTGTGTGCAAGAGTGAAGGA	1801
QY	1360	AGTTGTTGTGCAATAAAAAAGAGGCTGTTTAAAGAGATTATTGGCAGAAAATGCAGG	1419
DB	1802	CAACGTTTGAAGATCGAGGGGACACAGAAATTTCCAGCTTCTGGCTCAACACCGAGG	1861
QY	1420	AATGGCAATGCTCTGTGAAACGATPAGAAAGATTTGGGATCATGATGACAGACCGAGTT	1479
DB	1862	CATCCAGATGCTGTGAGACGTTGACTGAGTGTGGGACCAAGCAGCCAGAGGCCCTCT	1921

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DB 1922 CACAGCCAGTGTGTGGCAGAACGCTTTCAGTGAGCTGGA 1960

RESULT 14

US-10-646-640-10
;; Sequence 10, Application US/10646640
;; Publication No. US20040038284A1
;; GENERAL INFORMATION:
;; APPLICANT: Markowitz, Sanford D
;; APPLICANT: Brattain, Michael G
;; APPLICANT: Willson, James K.V.
;; TITLE OF INVENTION: CANCER DIAGNOSIS, PROGNOSIS AND THERAPY BASED ON
;; TITLE OF INVENTION: MUTATION OF RECEPTOR
;; FILE REFERENCE: 062361.0108
;; CURRENT APPLICATION NUMBER: US/10/646,640
;; CURRENT FILING DATE: 2003-08-21
;; PRIOR APPLICATION NUMBER: US/09/878,905
;; PRIOR FILING DATE: 2001-06-13
;; PRIOR APPLICATION NUMBER: 08/417,867
;; PRIOR FILING DATE: 1995-04-07
;; NUMBER OF SEQ ID NOS: 11
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 10
;; LENGTH: 2090
;; TYPE: DNA
;; ORGANISM: human
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: (336)..(2036)
US-10-646-640-10

Query Match 6.6%; Score 168.2; DB 13; Length 2090;
Best Local Similarity 53.8%; Pred. No. 1.3e-33;
Matches 441; Conservative 0; Mismatches 363; Indels 15; Gaps 4;

QY	709	TGAATATGTGGCTGTCTCAAAATATTTCCAAATACAGGACAAACAGTCTCTGGCAGATGAATA	768
DB	1148	TGAGACAGTGGCAGTCAAGATCTTTCCCTATGAGGATGCTCTTTGGGAACACAGAA	1207
QY	769	TGAAGTCTATAGTCTACCTGGATGAGCATGAGACATACATACATCTTATTGGTGCAGA	828
DB	1208	GGACATCTTCTCAGACATCAATCTGAAGCATGAGAACTACTCCAGTTCTCGCGCTGA	1267
QY	829	GAAAGAGGACACAGTGTGGATGTGGACCTGTGGCTAATCAGACATTTTCATGAAAGGG	888
DB	1268	GGAGCGAAGACGGAGTTGGGAAACATATCTGGCTATCAGCGCTTCCAGCCAGGG	1327
QY	889	CTCACTGTACAGCTTTCTTAAAGCTTAAGCTTAAGCTTAAGCTTAAGCTTAAGCTTAAG	948
DB	1328	CAACCTACAGGAGTACCTGACGGGCTATCTCATGCTGGAGGACCTGCGCAAGCTGG	1387
QY	949	AGAAACCATGGCTAGAGGATTCGCATATTTACATGAGGATATACCTGGCTTAAAGATGG	1008
DB	1388	CAGCTCCCTCGCCGGGGGATTTCTCACTCCACAGTGAATCACT---CCATGTGGAG	1444
QY	1009	CCACAGACCTGCAATCTCTCAGAGGACATCAAAAGTAAATATGTCTGTGAAACAA	1068
DB	1445	GCCCAAGATGCCATCTGTGCAAGGACCTCAAGAGCTCCAATATCTCTGTAAGAACGA	1504
QY	1069	TCGACAGCTTGCATCTGCTGACTTTGGTGGCTTAAAGTTTGAGGCTGGCAAGTGC	1128
DB	1505	CCTAACCTGTGCTGTGACTTTGGGCTTTCCCTGCTGGACCTTACTCTGTCTGT	1564
QY	1129	AGGTGAC-----ACCCATGGCAGGTTGGTACCCGGAGGTATATGGCTCCAGAGTGT	1182
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QY	1183	GGAGGTGCTATAAACTTCCAAA---GGGACGATTTCTGAGGATAGATATACGCCAT	1239
DB	1625	AGAATCCAGATGAATTTGGAGATGCTGATGCTTCAAGCAGACCGATGTCTACTTCCAT	1684
QY	1240	GGGATTAAGTCTATGGAAATTTGGCTTCTGTTGCACTGCTGCGATGAGACCCGTAGATGA	1299
DB	1685	GGCTCTGTGCTGTGGAAATGACATCTGCTG---TAATGCACTGGGAGAGTAAAGA	1741
QY	1300	GTACATGTTACCATTTGAGGAAGAAATGGCAGCATTCATCTCTTGAAGATATGAGGA	1359
DB	1742	TTATGAGCCTCCATTTGGTTTCCAGGTGCGGAGCACCCCTGTGTGCAAGAGTGAAGGA	1801
QY	1360	AGTTGTTGTGCAATAAAAAAGAGGCTGTTTAAAGAGATTATTGGCAGAAAATGCAGG	1419
DB	1802	CAACGTTTGAAGATCGAGGGGACACAGAAATTTCCAGCTTCTGGCTCAACACCGAGG	1861
QY	1420	AATGGCAATGCTCTGTGAAACGATPAGAAAGATTTGGGATCATGATGACAGACCGAGTT	1479
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OM protein - protein search, using sw model

Run on: June 28, 2004, 09:48:46 ; Search time 49 Seconds
(without alignments)
2955.651 Million cell updates/sec

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Gapop 10.0 , Gapext 0.5

Searched: 1163542 seqs, 28213646 residues

Total number of hits satisfying chosen parameters: 1163542

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1971.5	71.2	510	9 US-09-742-684-4	Sequence 4, Appli
3	1455.5	52.5	346	15 US-10-367-241A-2	Sequence 2, Appli
4	1150.5	41.5	516	13 US-10-108-605-79	Sequence 79, Appli
5	1147.5	41.4	516	13 US-10-108-605-157	Sequence 157, App
6	775.5	28.0	530	15 US-10-463-190-111	Sequence 111, App
7	775.5	28.0	530	15 US-10-463-190-112	Sequence 112, App
8	775.5	28.0	567	9 US-09-878-905-11	Sequence 11, Appl
9	775.5	28.0	567	12 US-10-646-640-11	Sequence 11, Appl
10	775.5	28.0	567	15 US-10-394-322A-62	Sequence 62, Appl
11	775.5	28.0	567	16 US-10-408-765A-1236	Sequence 1236, Ap
12	775.5	28.0	592	10 US-09-917-788-5	Sequence 5, Appli
13	775.5	28.0	1038	9 US-09-908-500A-2	Sequence 2, Appli
14	775.5	28.0	1038	14 US-10-286-152A-42	Sequence 42, Appl
15	775.5	28.0	1038	15 US-10-463-190-113	Sequence 113, App

Sequence 114, App
Sequence 115, App
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US-09-874-628-4
US-10-058-270A-6
US-10-044-716-14
US-10-286-152A-40
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US-10-241-220-112
US-10-169-051-2
US-10-295-027-68
US-10-295-027-789
US-10-295-027-887
US-10-173-999-64
US-10-463-190-103

ALIGNMENTS

RESULT 1

US-09-742-684-2
: Sequence 2, Application US/09742684
: Patent No. US20010039036A1

: GENERAL INFORMATION:
: APPLICANT: Mathews, Lawrence S.

: Tsuchida, Kunihiko
: TITLE OF INVENTION: CLONING AND RECOMBINANT PRODUCTION OF
: RECEPTOR(S) OF THE ACTIVIN/TGF-BETA SUPERFAMILY

: NUMBER OF SEQUENCES: 14

: CORRESPONDENCE ADDRESS:

: ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark

: CITY: Los Angeles

: STATE: CA

: COUNTRY: USA

: ZIP: 90071

: COMPUTER READABLE FORM:

: MEDIUM TYPE: Floppy disk

: COMPUTER: IBM PC compatible

: OPERATING SYSTEM: PC-DOS/MS-DOS

: SOFTWARE: Patent In Release #1.0, Version #1.25

: CURRENT APPLICATION DATA:

: APPLICATION NUMBER: US/09/742,684

: FILING DATE: 19-Dec-2000

: CLASSIFICATION: <Unknown>

: PRIORITY INFORMATION:

: APPLICATION NUMBER: 08/476,123

: FILING DATE: <Unknown>

: APPLICATION NUMBER: US 08/300,584

: FILING DATE: 02-SEP-1994

: APPLICATION NUMBER: US 07/880,220

: FILING DATE: 08-MAY-1992

: APPLICATION NUMBER: US 07/773,229

: FILING DATE: 09-OCT-1991

: APPLICATION NUMBER: US 07/698,709

: FILING DATE: 10-MAY-1991

ATTORNEY/AGENT INFORMATION:

NAME: Reiter, Stephen E.
 REGISTRATION NUMBER: 31,192
 REFERENCE/DOCKET NUMBER: P41 9927
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 619-546-4737
 TELEFAX: 619-546-9392

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:
 LENGTH: 513 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 SEQUENCE DESCRIPTION: SEQ ID NO: 2:

US-09-742-684-2

Query Match 99.7%; Score 2763; DB 9; Length 513;
 Best Local Similarity 99.4%; Pred. No. 5.4e-231; Indels 0; Gaps 0;
 Matches 510; Conservative 3; Mismatches 0;

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 DB 61 FATWNISSIEIVKQGCWLDINCVDRTDCIEKKDSPEVYFCCCGNCKEKSYPPEM 120

QY 121 EVTQPTSNVTPKPPYNYLLSLVPLMLIAGIVICAFWYVRRHKMAYPPVLVPTQDPGP 180
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 DB 181 PPPSPLLGLKPLQLLEVKARGFCVWKQAQLNNEYVAVKIPIQDKQSWNEYEYVSLPG 240

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 DB 241 MKHENILOFIGAERKGTSDVDLMLITAFHEKGSLSDFLKNVSWNOLCHIAETMARGL 300

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 DB 301 AYLEDIPGLKHPAISHRDIKSNVLLKNNLTACIADFGALKFEAGKSAGDTHGQV 360

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 DB 361 GTRRYMAPEVLEGAINFQDAFLRIDMYAMGLVNLASRCTAADGPVDEYMLPPEEEIG 420

QY 421 QHPSEDMQEVVVKKKRPVLRDYWKQKAGMAMLCETIEECWDHDAEARSAGCVGERIT 480
 DB 421 QHPSEDMQEVVVKKKRPVLRDYWKQKAGMAMLCETIEECWDHDAEARSAGCVGERIT 480

QY 481 QMORLTNIITTEDIVTWVTWNTVNDPPPKSSSL 513
 DB 481 QMORLTNIITTEDIVTWVTWNTVNDPPPKSSSL 513

RESULT 2

US-09-742-684-4

Sequence 4, Application US/09742684
 Patent No. US20010039036A1

GENERAL INFORMATION:

APPLICANT: Mathews, Lawrence S.

Vale, Wylie W.

Tsuchida, Kunihiko

TITLE OF INVENTION: CLONING AND RECOMBINANT PRODUCTION OF

RECEPTOR(S) OF THE ACTIVIN/TGF-BETA SUPERFAMILY

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark

STREET: 444 South Flower Street, Suite 2000

CITY: Los Angeles

STATE: CA

COUNTRY: USA
 ZIP: 90071
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/742,684
 FILING DATE: 19-Dec-2000
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/476,123
 FILING DATE: <Unknown>
 APPLICATION NUMBER: US 08/300,584
 FILING DATE: 02-SEP-1994
 APPLICATION NUMBER: US 07/880,220
 FILING DATE: 08-MAY-1992
 APPLICATION NUMBER: US 07/773,229
 FILING DATE: 09-OCT-1991
 APPLICATION NUMBER: US 07/698,709
 FILING DATE: 10-MAY-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Reiter, Stephen E.
 REGISTRATION NUMBER: 31,192
 REFERENCE/DOCKET NUMBER: P41 9927
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 619-546-4737
 TELEFAX: 619-546-9392
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 510 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-09-742-684-4

Query Match 71.2%; Score 1971.5; DB 9; Length 510;
 Best Local Similarity 67.9%; Pred. No. 2.6e-162;
 Matches 349; Conservative 85; Mismatches 75; Indels 5; Gaps 3;

QY 1 MGAALKAFAPVFLISCSGAILGRSETQCLFFNANWEKDRNTQGVPCYGDKKRRHC 60
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QY 61 FATWNISSIEIVKQGCWLDINCVDRTDCVEKKDSPEVYFCCCGNCKEKSYPPEM 120
 DB 61 FATWNISSIEIVKQGCWLDINCVDRTDCVEKKDSPEVYFCCCGNCKEKSYPPEM 120

QY 121 EVTQPTSNVTPKPPYNYLLSLVPLMLIAGIVICAFWYVRRHKMAYPPVLVPTQDPGP 180
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RESULT 3
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; Sequence 2, Application US/10367241A
; Publication No. US20030219846A1
; GENERAL INFORMATION:
; APPLICANT: PRIZER INC.
; APPLICANT: Krasney, Phillip A.
; APPLICANT: No. US20030219846A1cia, Michael
; APPLICANT: O'Connor, Barbara A.
; APPLICANT: Spencer, Robin W.
; TITLE OF INVENTION: ASSAY FOR ACTIVITY OF THE ACR11B KINASE
; FILE REFERENCE: PC11691A
; CURRENT APPLICATION NUMBER: US/10/367,241A
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/360,607
; PRIOR FILING DATE: 2002-02-28
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 2
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Homo sapiens
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Best Local Similarity	76.1%;	Pred. No. 9.4e-118;		
Matches 258;	Conservative 52;	Mismatches 28;	Indels 1;	Gaps 1
Qy	176	QDCPPPPSLGKPKQLLEVKARGRGCVKQKOLLNEYVAVKTFPIQDKSQMONEVEV	235	
Db	8	EDGPPPPPLVGLGKPKQLLEIKARGRGCVKQKQLMMDFFVAVKTFPIQDKSQSQSERI	67	
Qy	236	YSPGKMHENILQPIGAEKRTSDVDVLWLITAPHEKSGSLGDFLKANVSVNQOLCHIAET	295	
Db	68	FSPGKMHENLLQPIAEEKSGSLEVEVLWLITAFHDKGSGLTDLKGNLIITWNLCHVAET	127	
Qy	296	MARGLAVLHEDI PGLK - DGHKPAISHRDIKGNVLLKNNLTACTIADFGALUKFBAGKSAG	354	
Db	128	MSRGLSYLHEDVPHRCRGGHKHPSIAHRDFKSKNVLLKSDLTAVLADFGLAVERFPGKPG	187	
Qy	355	DTHGQVCTRRYMAPEVLEGAINFORDAFLRITDMYAMGLVLMELASRCTFAADGPDVDEYMLP	414	
Db	188	DTHGQVCTRRYMAPEVLEGAINFORDAFLRITDMYAMGLVLMELVSRCKAADGPDVDEYMLP	247	
Qy	415	FEEEIGHQPSLEDQEVVHHKKPKPLVRDYWKHAGMAMLCSTTEECWDHDAEARLSAGC	474	
Db	248	FEEEIGHQPSLEBLEQEVVHHKKPKPTIKDHWLKEFGLAQLCVLTIECWDHDAEARLSAGC	307	
Qy	475	VGERITOMQLTNIITTEDIVVTVMVTNVDFPPKRESSL	513	
Db	308	VEERVLSIRSVNGTTGDCVLSVTSVFNVDLPKKESSI	346	

RESULT 4
US-10-108-605-79
; Sequence 79, Application US/10108605
; Publication No. US20020160934A1
; GENERAL INFORMATION:
; APPLICANT: Brocadus, Julie
; APPLICANT: Stam, Lynn
; APPLICANT: Bachmann, Jane
; APPLICANT: Kamdar, Kim
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES FROM DROSOPHILA MELANOGASTER THAT ENCODE
; TITLE OF INVENTION: PROTEINS ESSENTIAL FOR LARVAL VIABILITY AND USES THEREOF
; FILE REFERENCE: 31133B
; CURRENT APPLICATION NUMBER: US/10/108,605
; CURRENT FILING DATE: 2002-03-27

; SEQ ID NO 157
; LENGTH: 516
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-10-108-605-157

Query Match 41.4%; Score 1147.5; DB 13; Length 516;
Best Local Similarity 47.8%; Pred. No. 8.5e-91;
Matches 251; Conservative 83; Mismatches 144; Indels 47; Gaps 19;

```

QY 11 VFLISC---SSGAIL--GRSETORCLFFFNANWEK--DRTNQ--TGVEPCYGDKDKRKHCF 62
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 13 VTLVCLLIGHSGILPGSHGIECEHFD---EKMCNTTQOCETRIEHCWEADKPPSCV 59
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 63 TH--KNISGIIIVKQGWLDINDYDRDTCVEKKDSPE--VYPCCEBGMNCKEKPSP 118
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 70 LMSVNETTGILRIKQKCFDHEC--NOTECVTSAPROGNIHFCCCKSRCSNQRK 128
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 119 E-----MEVTOPTSNPTPKPPYNNILYSIVPLMLIAGIVICAFWVYRHHKMAVP 169
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 129 STREATTQVPEKTDQGSNLIY---IYIGTSVFSV--LWIVGM--GLLTYRRKQAHF 180
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 170 PVLVPTQDPGPPPPPLGLKQLLEVKARGFCGWKQAQLLNEYVAVKIPPIQDKQSW 229
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 181 NE-IPTHEAEITNSPILLSNRPIQLLEQKASGRFGDVQAKLNQDVAVKIFRMQEKESW 239
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 230 QNEYEVYSIPGMKHENILOFICAEKRGTSVD--VDLWLITAPHEKGSLSDFKANVSNQ 288
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 240 TTEHDYIKLPRWRHNNILFGLVEXH---MOKPEYWLSTYOHNGSLCDBYLSKSHTSWPE 296
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 289 LCHIAETMARGLAYLHEDIPGLK--DGHKPAISHRDIKSNVLLKNNLTACIADFLGLK 347
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 297 LCRIAESMANGLAHLHERIPASKTDLKPSIAHROFKNVLLKSDLTACIADFLGLMIF 356
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 348 EAGKAGDTHGQVGTTRWMAPEVLEGAINFQDAFLRDMYAGLVNLWELASRCTAADGP 407
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 357 QPKPCGTHGQVGTTRWMAPEVLEGAINFQDAFLRDMYAGLVNLWELASRCTAADGP 415
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 408 VDEYMLPFEEIGQPSLEDQEVVVKKKRVLADYMQHAGMAMLCETIEECWHDHAE 467
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 416 VGEFQLPFEAEGLRSLDEVOESVVMKKLRPLANSRAHPGLNVPCTDTEECWHDHAE 475
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 468 ARLSAGCTGERITQORLTNIITTEDIVTVVTWNTVDPKPS 512
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 476 ARLSSCYMERPAQLNKYPS-----TQLLNKHTNID-DAKEST 513
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

```

RESULT 6

US-10-463-190-111

; Sequence 111, Application US/10463190

; Publication No. US20040009535A1

; GENERAL INFORMATION:

; APPLICANT: Brunkow, Mary E.

; APPLICANT: Galas, David J.

; APPLICANT: Kovacevich, Brian

; APPLICANT: Mulligan, John T.

; APPLICANT: Paepker, Bryan W.

; APPLICANT: Van Ness, Jeffrey

; APPLICANT: Winkler, David G.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR

; FILE REFERENCE: 240083.508C2

; CURRENT APPLICATION NUMBER: US/10/463,190

; CURRENT FILING DATE: 2003-06-16

; NUMBER OF SEQ ID NOS: 143

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 111

; LENGTH: 530

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-463-190-111

Query Match 28.0%; Score 775.5; DB 15; Length 530;

Best Local Similarity 34.5%; Pred. No. 1.7e-58;
Matches 179; Conservative 103; Mismatches 172; Indels 65; Gaps 19;

```

QY 7 LAPAVFLISCSSGAILGRSETOECL--FFNANWEKDR-----TNQTGVEPCYGDKDKR 58
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 14 LPWTILLVSTAAA-----SQNERLCAFPDYQODLIGESRISHENGITILC-----SKGS 64
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 59 HCPATWKNISSIIRIVKGCWL---DDINCVDRTDCVEKKDSPEVY-----FCCCEGNNC 110
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 65 TCYGLWEKSGKDINLVKQCNHIGDPQECH--YBECVVVTTTPPTSTQNTYRFFCCSTDL 123
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 111 NEKES--VPEPEVTPQTSNPVTBKPPYNN---ILYSIVPLMLIAGIVICAFWVYRHHKM 166
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 124 NVNTEPNP-----PPDTTPUSP--PHSFNRDETIIIALASVSVLAVLVALCFCGTR---- 173
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 167 AYPVLVPTQDPG-----PPPPSPLLGLKPLQLLEVKARGFCGWKQAQLLNEYVAV 218
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 174 ---MLTGRDKOGLHSMNMBEAAAEPSLDLNLKLLLELIGRGYGAUVYKGSLSRDPVAV 229
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 219 KIPFIQDKSQWQNEYEVYSIPGMKHENILOFICAEKRGTSVD--VDLWLITAPHEKGSLS 277
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 230 KVSFANRQNFINEKNYRVPLMEHDNIAREIVGDERTADGRMEYLLWMEYYPNGSLCK 289
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 278 FLKANVWSNQLCHIAETMARGLAYLHEDIPGLKDGHKPAISHRDIKSNVLLKNNLTAC 337
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 290 YLSLHTSDMVSSCRSLAHSVTGLAYLHTLP--RGDHYKPAISHRDLANSRVLVKNDGTCV 348
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 338 IADFLGLKFP-----EAGKAGDTHGQVGTTRWMAPEVLEGAINFQ--RDAFLRIDMYA 389
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 349 ISDFGLSMRLTGNLVRPGBEDNAAISEVGTIRYMAPEVLEGAVNLKDCBSALKQVDNYA 408
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 390 MGLVNLWELASRCT--AADGPVDEYMLPFEEIGQPSLEDQEVVVKKKRVLADYMQH 447
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 409 LGLIYWEIPECTDLFPGBSVPEYQMAFQTEVGNHPTFEDMQVLVSRKQRPKPEAWKE 468
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 448 HA-GMAMLCETIESCWHDHAEARLSAGCTGERITQORL 485
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 469 NSLAVRSLKETIEDCWDQDAEARLTAQCAERMAELMMI 507
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

```

RESULT 7

US-10-463-190-112

; Sequence 112, Application US/10463190

; Publication No. US20040009535A1

; GENERAL INFORMATION:

; APPLICANT: Brunkow, Mary E.

; APPLICANT: Galas, David J.

; APPLICANT: Kovacevich, Brian

; APPLICANT: Mulligan, John T.

; APPLICANT: Paepker, Bryan W.

; APPLICANT: Van Ness, Jeffrey

; APPLICANT: Winkler, David G.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR

; FILE REFERENCE: 240083.508C2

; CURRENT APPLICATION NUMBER: US/10/463,190

; CURRENT FILING DATE: 2003-06-16

; NUMBER OF SEQ ID NOS: 143

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 112

; LENGTH: 530

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-463-190-112

Query Match 28.0%; Score 775.5; DB 15; Length 530;

Best Local Similarity 34.5%; Pred. No. 1.7e-58;
Matches 179; Conservative 103; Mismatches 172; Indels 65; Gaps 19;

```

QY 7 LAPAVFLISCSSGAILGRSETOECL--FFNANWEKDR-----TNQTGVEPCYGDKDKR 58
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 14 LPWTILLVSTAAA-----SQNERLCAFPDYQODLIGESRISHENGITILC-----SKGS 64
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

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59 HQCFATWKOISGIBIVKOGCWL---DDINCVDRTDCVGEKDSPEVY-----FCCCEGNMC 110
Db
65 TCYGLWEXSGKDINLVKOGCSHIGDPQECH-YBECVVVTTTPPSIQNGTVRFCCSTDLIC 123
QY
111 NEKFS-YFPEMEVTOPTSNPVTPKPPVY---ILLYSLVPLMLLAGIVTCAFVWYRHKKM 166
Db
124 NVNFTENFP-----PPDTTPISP-PHFENRDETHIIALASVSLVLAIVLALCFGYR---- 173
QY
167 AYPPVLVFTQDPG-----PPPSPLGLKPIQLLEVKARGPCGVKWAQLNLNYSVAV 218
Db
174 ----MLTGDRXQGLSHMNMWEEAASPSLDLDNLKLELLIGRGYGAUVKYGSLDERPVAV 229
QY
219 KIFFIQDKOSWQNEVYVSLGCMKHENLQFIGAEGKGTSDV-VDLWLTAIPEHKGSLSD 277
Db
230 KVFSPANRQNFINEKXIIIVRVELMHDNIARFIVGDERVTADGMEVLLVNMVYFNGSLCK 289
QY
278 FLKANVWSNOLCHIAETWARGLAYLHEDIPGLXGDEHKPAISHRDIKSNVLLKNNLTAC 337
Db
290 YLSLHTSDWVSSCRLAHSVTRGLAYLHTELP-RGDHYKPAISHRDLNSRNLVXKNDGTGV 348
QY
338 IADFGIALKP-----EAGKSAGDTHQGVGTRRPMADPEVLEGAINFQ---RDAPFLRDMYA 389
Db
349 ISDFGLSLMRLTGNLVRPGEEDNAAI SEVGTIRTPMAPEVLEGAWNLRDCE SALKQYDMYA 408
QY
390 MGLVLWELASRCT--AADGPVDEYMLPFESEIGHPSLEDMQEVVHKKKRPVLRYDQK 447
Db
409 LGLIYWEIFMRCITDLFPGESVPFEQMAFQTEVGNHPTFEDQVIVSREKQRPKPFPEAMKE 468
QY
448 HA-GMAMLCETIEBCWOHDABEARLSAGCVGERITQMORL 485
Db
469 NSLAVRSLEKTEIEDCWODABEARLTAOCACERMAELMMI 507

```

RESULT 8

```

US-09-878-905-11
; Sequence 11, Application US/09878905
; Patent No. US20020064786A1
; GENERAL INFORMATION:
; APPLICANT: Markowitz, Sanford D
; APPLICANT: Brattain, Michael G
; APPLICANT: Willison, James K V
; TITLE OF INVENTION: CANCER DIAGNOSIS, PROGNOSIS AND THERAPY BASED ON
; TITLE OF INVENTION: MUTATION OF RECEPTOR
; FILE REFERENCE: 062361.0108
; CURRENT APPLICATION NUMBER: US/09/878,905
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 08/417,867
; PRIOR FILING DATE: 1995-04-07
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 11
; LENGTH: 567
; TYPE: PRT
; ORGANISM: human
US-09-878-905-11

```

Query Match	28.0%	Score	775.5	DB 9	Length	567
Best Local Similarity	35.6%	Pred. No.	1.8e-58			
Matches	176	Conservative	82	Mismatches	140	
				Indels	97	Gaps
						15

Qy	60	CFAWKNISGSIEIVKOGCWLLDINCYD-----RTDCV--EKDSPEVVF-	102
	:	: :	
	:	: :	
Db	84	CVAVRKNDENITL-----ETVCHDPKLPHVDAAAPKCIMKEKKPGSTFFM	135
	:	: :	
	:	: :	
Qy	103	CCCGNMCMNEKFSFPPEWEVTQTSNPVPKPYYNILL-----YSLVPLMLAGIVI	155
	:	: :	
	:	: :	
Db	136	CSCSDECDNNIIIFSEYN---TSPN-----DLLAWIQTGTGILLSPLGVAISVI	183
	:	: :	
	:	: :	
Qy	156	CAFVVYRHKKAYPVLVPTODGPFPF-----SPLLG	188
	:	: :	
	:	: :	
Db	184	IIFYCYRVNRQ--OKUSSWTETKRLMEPSEHCALIEDRRDISSTCANNINHTE	240
	:	: :	
	:	: :	
Qy	189	LKPIQLLEVKARGFGVCWKQAQLIN-----EYVAVKIPIQDKSQWNEYEVSLPGMK	242

	: : : : : : : : : : : : : :	
241	LLEFIETLTGKGRFAEYVNAKLQNTSEOPETVAVKLFFPEEYASMKTEKDIFSDIMLK	300
243	HENILOFIGAEKGTSVDVLWLITAFHAPHERGSLSDFLKYANVSNNQLCHIAETMARGUAY	302
301	HENILOFLTAERKETELGYWITAIPHAKNLOEYLTRHVISEDRLKGLSSLRGIAH	360
303	LHEDIPLGDGHKPA-----ISHRDTKSKNVLLKKNMLTACIADFGLAKFEAGKSAGD-	355
361	LHSD-----HTPCGRPKMPIVHRDLKSNILVKNDLTCCLCDFGLSLRDPTLSVDLD	413
356	-THGVGTREYMAPELVLEGAINFOR-DAFLRIDMYANGVLWELASRCTAADGPVDEYKL	413
414	ANSQVGATARYMAPELVESNRNLLENASFPQTQDIVSALVWEMTSIRCNV-GEVKDTEP	472
414	PFEERTGOHPSLSDMQEVVHHKKRPVLRYWQKHAGAMMLCETITECDHDDEARLASAG	473
473	PFQSKVREHPCVSMKDNVLRDRGRBPISPFWLNHQGIQMVCETILTCEMDHDPPEARLTAQ	532
474	CUGERITQMORLTNI	488
533	CVAERPSELHLDRL	547

RESULT 9

```

1  RESULT 3
2  US-10-646-640-11
3  ; Sequence 11, Application US/10646640
4  ; Publication No. US20040038284A1
5  ; GENERAL INFORMATION:
6  ; APPLICANT: Markowitz, Sanford D
7  ; APPLICANT: Brattain, Michael G
8  ; APPLICANT: Willson, James K.V.
9  ; TITLE OF INVENTION: CANCER DIAGNOSIS, PROGNOSIS AND THERAPY BASED ON
10 ; TITLE OF INVENTION: MUTATION OF RECEPTOR
11 ; FILE REFERENCE: 062361.0108
12 ; CURRENT APPLICATION NUMBER: US/10/646,640
13 ; CURRENT FILING DATE: 2003-08-21
14 ; PRIOR APPLICATION NUMBER: US/09/878,905
15 ; PRIOR FILING DATE: 2001-06-13
16 ; PRIOR APPLICATION NUMBER: 08/417,867
17 ; PRIOR FILING DATE: 1995-04-07
18 ; NUMBER OF SEQ ID NOS: 11
19 ; SOFTWARE: PatentIn Ver. 2.1
20 ; SEQ ID NO 11
21 ; LENGTH: 567
22 ; TYPE: PRT
23 ; ORGANISM: human
24 US-10-646-640-11

```

Query Match	28.0%	Score	775.5	DB 12	Length	567
Best Local Similarity	35.6%	Pred.	No. 1.8e-58			
Matches 176: Conservative	82	Mismatches	140			
		Indels	97			
		Gaps	15			

QY	60	CFATWKNISGSIBIVQGCWLLDINCVD	-----RTDCV--EKDQSPVYF-	102
Db	84	CVAVWRKNDENITL-----ETVCHDKPLPYHDFILEDAASPCKIMKEKKKPGSTFFM	135	
QY	103	CCCEGNWQNEKFSYPPREMEVQTQSTNPYKPYNNILL	-----YSLVPLMLIAGTIV	155
Db	136	CSGSSDECDNNIIFSEYN-----TSNP	-----DILLVIFQVGTGSLPLPGVAISVI	183
QY	156	CAFWYVRHKKMAPPVLPVPTQDGP PPP	-----SPLLG	188
Db	184	IIFCYKVRNRQ---QKLSSTWETGTRKLMFSEHCAIILEDDRSDISSTCANNINHTE	240	
QY	189	LKPLQLLEVKARGCFVCWKAQLN-----EYVAVKIPIQDKQSHQNEVYVLSLPMK	242	
Db	241	LIPIEDUTLVGGRFAEVKAKUKQNTSEOFETVAVKIPIEEYASWKTEDI	FSDDNLX 300	
QY	243	HENILOFIGAERGTSDVDLMLITAFHEKXGSLSDFLKANVWSNNQI	CHTAETMARGIAY 302	
Db	301	HENILOFLTAERKTELKGYMLITAFHAKGNLQEYLTRHVISWEDLRKGLSGSLARGIAH	360	


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US-09-917-788-5
; Sequence 5, Application US/09917788
; Publication No. US20030028905A1
; GENERAL INFORMATION:
; APPLICANT: KNAUS, Petra
; APPLICANT: KNAUS, Rainer
; TITLE OF INVENTION: MUTANT FORMS OF THE TGF-BETA TYPE II RECEPTOR WHICH BIND ALL TGF-
; TITLE OF INVENTION: ISOFORMS
; FILE REFERENCE: 38485-0005
; CURRENT APPLICATION NUMBER: US/09/917,788
; CURRENT FILING DATE: 2001-07-31
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Mutant TGF-beta type II receptor
US-09-917-788-5

Query Match      28.0%; Score 775.5; DB 10; Length 592;
Best Local Similarity 35.8%; Pred. No. 2e-58;
Matches 176; Conservative 82; Mismatches 140; Indels 97; Gaps 15;

QY 60 CFATKNIISGSIBIVKQGWLDINCVD-----RTDCV--EKXDSPEVVF- 102
DB 109 CVAVWRKNDNIITL-----ETVCHDPKLPYHDFILSDAASPKCIMEKKKPGGTFFM 160
QY 103 CCCEGNCMEKESYFPPEMEVQTSPNTPKPPYYNILL-----YSLVPLMLAGIIV 155
DB 161 CSCSDCECNIDNIFSEYN-----TSNP-----DLLVIFQVTTGISLLPLGVAISVI 208
QY 156 CAFVVRKHKMAYPPVLPVPTQDPGPPPP-----SPLLG 188
DB 209 IIFYCYRVNRQ---QKLSSTWEGTKRKLWRFSEHCAIILEDSDISSTCANNINHT 265
QY 189 LKPLQLLEVKARFCGVKWAQLLN-----EYVAVKIPFIOQKQWQNEVEYISLPKMK 242
DB 266 LLPFIEDTLVGRFAEVYKAKLKQNTSEQFETVAVKIPFYREYASWKTEDKDFSDINLK 325
QY 243 HENILOFIGAERKGTSDVDLMLITAPHEKGSLSDFLKNVSVNWLCHIAETMARGLAY 302
DB 326 HENILOFLTABEKTELGQYWIITAFHAKGNLOEYLTTHVTSWEDRLKLGSLARGIAH 385
QY 303 LHEDIPGLKDHKPA-----ISHRDIKSNVLLKNLTACIADFGIALKFAKGSAGD- 355
DB 386 LHSD-----HTPCGRPKMPIVHRDLKGSNLLVKNLDTCCCLDFGLSLRLDPTLSVDL 438
QY 356 -THGQVGTARYMAPEVLEGAINFOR-DATLRIDMYANGVLVWELASRCTAADGPVDEYML 413
DB 439 ANSGQVGTARYMAPEVLEGRMNLNLAESFKQTDVYSMALVWMTSRCAV-GEVKDIYP 497
QY 414 PPEETIGQPSLEDQMOVVVHKRPPVLRDYNOKHAGMAMLCETIECDHDAEARLSAG 473
DB 498 PGSKVREHPCVESMKONVLRDGRPEIFSPFWLHQGIQWCVETLTCDHDPPEARLTAQ 557
QY 474 CVGERITOMQLTNI 488
DB 558 CVAERFSELEHLDR 572

RESULT 13
US-09-908-500A-2
; Sequence 2, Application US/09908500A
; Patent No. US20020102576A1
; GENERAL INFORMATION:
; APPLICANT: James Loyd
; APPLICANT: Kirk B. Lane
; APPLICANT: John A. Phillips, III
; TITLE OF INVENTION: METHOD OF DIAGNOSING PULMONARY
; TITLE OF INVENTION: HYPERTENSION
; FILE REFERENCE: 22000.0108U3

US-09-908-500A-2
; Sequence 42, Application US/10286152A
; Publication No. US20030134308A1
; GENERAL INFORMATION:
; APPLICANT: Alcon Research, Ltd.
; APPLICANT: Clark, Abbot F.
; TITLE OF INVENTION: Bone Morphogenic Proteins (BMP), BMP Receptors and BMP Binding
; TITLE OF INVENTION: and Their Use in the Diagnosis and Treatment of Glaucoma
; FILE REFERENCE: 2312 US
; CURRENT APPLICATION NUMBER: US/10/286,152A
; CURRENT FILING DATE: 2002-02-28
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 1038
; TYPE: PRT
; ORGANISM: homo sapiens
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US-09-908-500A-2
; CURRENT APPLICATION NUMBER: US/09/908,500A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 60/218,740
; PRIOR FILING DATE: 2000-07-17
; PRIOR APPLICATION NUMBER: 60/220,133
; PRIOR FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1038
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-09-908-500A-2

Query Match      28.0%; Score 775.5; DB 9; Length 1038;
Best Local Similarity 34.5%; Pred. No. 4.1e-58;
Matches 179; Conservative 103; Mismatches 172; Indels 65; Gaps 19;

QY 7 LAFAVELISCSGAILGRSETQECL-FFNANWEKDR-----TNQTGVPCYGRDKRER 58
DB 14 LPWTILLAVSTAAA-----SQQERLCFAKDPVQQDLGIGESRISHENGITLC----SKGS 64
QY 59 HCFATWKNISGSIBIVKQGWL---DDINCVDRTDCVKKOSPEVY-----FCCCEGNC 110
DB 65 TCYGLWKSXGDIINLVKQGWSHIGDPQECH-YEECVVTTTPPSIQNGTYRCCCSSTDLC 123
QY 111 NEKPS-YFPEMEVTOPTSNPTPKPPYYN---ILLYSLVPLMLIAGIVICAFWVYRHHKM 166
DB 124 NVNFTENFP-----PPDTTPLSP-PHSFNRETIILIALSVSLVALIVALCFGYR- 173
QY 167 AVPPVLVPTQDPG-----PPPSPLLGKLPOLLEVKARGRCGVKWAQLLNEYVAV 218
DB 174 ---MLTGRKQGLSHMMNMEAAASEPSLDDLNLKLELIGRGYGAIVTKGSLDRPVAV 229
QY 219 KTFPQDKQSQWNEVEYISLQMKHENITLOFGAKRGTSVD-VDLMLITAPHEKGSLS 277
DB 230 KVFSPANQNFINEKVIYRVPLMEHDNIAIRIVGDERVTADGRMEYLLAWVEYYPNGSLCK 289
QY 278 FLKANVSVNWLCHIAETMARGLAYLHEDI-PGLKDHKPAISHRDIKSNVLLKNLTAC 337
DB 290 YLSLHTSDWSSRLAHSVTRGLAYLHTLP-RGDHYKPAISHRDLNRSNVLVKNDDGTVC 348
QY 338 TADFGLALKF-----EAGKSGDTHGQVGTARYMAPEVLEGAINFO--RDATLRIDMYA 389
DB 349 ISDFGLSMLTGNLVRPGEEDNAAISEVGTIRYNAPEVLEGAVNLRCESALKQVDMYA 408
QY 390 MGLVWELASRCT--AADGPVDEYMLPPEEIGQHPSELEDQMOVVVHKRPPVLRDYNOK 447
DB 409 LGLIYWEIFMRTDLPFGESVPEYQMAFQTEVGNHPTFEDMQVLVSRKQKPKFPEAWKE 468
QY 448 HA-GVAMLCETIEBECWDHDAEARLSAGCVGERITOMQL 485
DB 469 NSLAVRSUKETIEDCWDQDAEARLTAQACABERMAELMMI 507

RESULT 14
US-10-286-152A-42
; Sequence 42, Application US/10286152A
; Publication No. US20030134308A1
; GENERAL INFORMATION:
; APPLICANT: Alcon Research, Ltd.
; APPLICANT: Clark, Abbot F.
; TITLE OF INVENTION: Bone Morphogenic Proteins (BMP), BMP Receptors and BMP Binding
; TITLE OF INVENTION: and Their Use in the Diagnosis and Treatment of Glaucoma
; FILE REFERENCE: 2312 US
; CURRENT APPLICATION NUMBER: US/10/286,152A
; CURRENT FILING DATE: 2002-02-28
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 1038
; TYPE: PRT
; ORGANISM: homo sapiens
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US-10-286-152A-42

Query Match 28.0%; Score 775.5; DB 14; Length 1038;
 Best Local Similarity 34.5%; Pred. No. 4.1e-58;
 Matches 179; Conservative 103; Mismatches 172; Indels 65; Gaps 19;

QY 7 LAPAVFLISCSGAILGRSETOCL-FFNANWEKOR-----TNQTGVEPCYGDKXER 58
 DB 14 LPWTLLVSTAAA-----SONQERLCAPKDPYQODLIGIGESRISHENGTLIC-----SKGS 64
 QY 59 HCFATWKNISGIBIVKQGCWL---DDINCYDRTDCVEKKDSPEVY-----FCCCEGNNC 110
 DB 65 TCYGLWEKSKGDLNLVKGCSHIGDPQECH-YEECVVTTTTPSIQNGTYRFCCCSIDL 123
 QY 111 NEKES-YFPEMEVTOPTSNPTPKPPYH---ILLYSLVPLMLIAGIVICAFWVYRHHXN 166
 DB 124 NYNFTENFP-----PPDTTLPSP-PHSFNDRDETHIIALASVSLAVLIVLVALCFGYR---- 173
 QY 167 AYPVPLVPTQDPG-----PPPPSLGLKPLQLLEVKARGFCVCKAQLLNEYVAV 218
 DB 174 ----MLTGRKQGLHSMNMWMAAASEPSLDLNLKLELIGRGYGAIVYKGSLSLDERP 229
 QY 219 KIPPIQDKQSWNEVEYSLPGMKHENILOPTGAERKGTSDV-VDLWLITAFHEKGSLS 277
 DB 230 KVFSPANRQNFINEKNIYRVLMEHDNIARFIVGDERVTADGRMEYLLVMYYPNGSLCK 289
 QY 278 FLKANVVSNNQCHIAETMARGLAYLHEDI PGLKQGHKPAISHRDIKSKNNVLLKNLTAC 337
 DB 290 YLSLHSDWSSCRLAHSVTRGLAYLHETLP-RGDHYKPAISHRDLNRSNVLVRKNDGTCV 348
 QY 338 IADFGALALKP-----EAGKSAGDTHGQVGTTRYMAPEVLEGAINFQ--RDAFLRIDMYA 389
 DB 349 ISDFGLSMRLTGNRLVRPGEEDNAAISEVGTTRYMAPEVLEGAVNLRDCESALKQVDMYA 408
 QY 390 MGLVWLWELASRCT--AADGPVDEYMLPFEETIGOHPSLEDQMVEVVKKKRPVLRDYQK 447
 DB 409 LGLIYWEIFMRCTDLFPGESVPEYQAFQTEVGNHPTFEDMQVLVRSREKQRPPEAWKE 468
 QY 448 HA-GMAMLCETIEECWDHDAEALRSAGCVGERITQMORL 485
 DB 469 NSLAVRSLKETIEDCWDQDAEARLTAQCAEERMAELMMI 507

RESULT 15

US-10-463-190-113
 ; Sequence 113; Application US/10463190
 ; Publication No. US20040009535A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Brunkow, Mary E.
 ; APPLICANT: Galas, David J.
 ; APPLICANT: Kovacevich, Brian
 ; APPLICANT: Mulligan, John T.
 ; APPLICANT: Paepker, Bryan W.
 ; APPLICANT: Van Ness, Jeffrey
 ; APPLICANT: Winkler, David G.
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
 ; TITLE OF INVENTION: INCREASING BONE MINERALIZATION
 ; FILE REFERENCE: 240083.508C2
 ; CURRENT APPLICATION NUMBER: US/10/463,190
 ; CURRENT FILING DATE: 2003-06-16
 ; NUMBER OF SEQ ID NOS: 143
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 113
 ; LENGTH: 1038
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-463-190-113

Query Match 28.0%; Score 775.5; DB 15; Length 1038;
 Best Local Similarity 34.5%; Pred. No. 4.1e-58;
 Matches 179; Conservative 103; Mismatches 172; Indels 65; Gaps 19;

QY 7 LAPAVFLISCSGAILGRSETOCL-FFNANWEKOR-----TNQTGVEPCYGDKXER 58

DB 14 LPWTLLVSTAAA-----SONQERLCAPKDPYQODLIGIGESRISHENGTLIC-----SKGS 64
 QY 59 HCFATWKNISGIBIVKQGCWL---DDINCYDRTDCVEKKDSPEVY-----FCCCEGNNC 110
 DB 65 TCYGLWEKSKGDLNLVKGCSHIGDPQECH-YEECVVTTTTPSIQNGTYRFCCCSIDL 123
 QY 111 NEKES-YFPEMEVTOPTSNPTPKPPYH---ILLYSLVPLMLIAGIVICAFWVYRHHXN 166
 DB 124 NYNFTENFP-----PPDTTLPSP-PHSFNDRDETHIIALASVSLAVLIVLVALCFGYR---- 173
 QY 167 AYPVPLVPTQDPG-----PPPPSLGLKPLQLLEVKARGFCVCKAQLLNEYVAV 218
 DB 174 ----MLTGRKQGLHSMNMWMAAASEPSLDLNLKLELIGRGYGAIVYKGSLSLDERP 229
 QY 219 KIPPIQDKQSWNEVEYSLPGMKHENILOPTGAERKGTSDV-VDLWLITAFHEKGSLS 277
 DB 230 KVFSPANRQNFINEKNIYRVLMEHDNIARFIVGDERVTADGRMEYLLVMYYPNGSLCK 289
 QY 278 FLKANVVSNNQCHIAETMARGLAYLHEDI PGLKQGHKPAISHRDIKSKNNVLLKNLTAC 337
 DB 290 YLSLHSDWSSCRLAHSVTRGLAYLHETLP-RGDHYKPAISHRDLNRSNVLVRKNDGTCV 348
 QY 338 IADFGALALKP-----EAGKSAGDTHGQVGTTRYMAPEVLEGAINFQ--RDAFLRIDMYA 389
 DB 349 ISDFGLSMRLTGNRLVRPGEEDNAAISEVGTTRYMAPEVLEGAVNLRDCESALKQVDMYA 408
 QY 390 MGLVWLWELASRCT--AADGPVDEYMLPFEETIGOHPSLEDQMVEVVKKKRPVLRDYQK 447
 DB 409 LGLIYWEIFMRCTDLFPGESVPEYQAFQTEVGNHPTFEDMQVLVRSREKQRPPEAWKE 468
 QY 448 HA-GMAMLCETIEECWDHDAEALRSAGCVGERITQMORL 485
 DB 469 NSLAVRSLKETIEDCWDQDAEARLTAQCAEERMAELMMI 507

Search completed: June 28, 2004, 09:50:28

Job time : 51 secs